

MacAddict

A BETTER MACHINE. A BETTER MAGAZINE.

THE COMPLETE GUIDE

STOP HACKERS THIEVES VIRUSES & SPAM

Total Online Security
GUARANTEED**MAC VS. PC**

THE TRUTH

- Why Macs are less expensive
- Helping PC users move to Mac
- Why PowerPC kicks Pentium's scrawny butt

MAC-LOCK

SECURE

84 CAN'T-MISS HOLIDAY GIFTS

- Awesome Oddities
- Personal Printers
- PowerBook Bags
- iPod Accessories
- Digital Cameras
- Cordless Mice
- Killer Games
- and a whole lot more!

DON'T GET SCROOGED

How to use Excel to
manage your money

REVIEWED:

Photoshop Elements 2, Premiere 6.5, Boa FireWire CD-RW Drive, Max Payne, DiMage 7i Digital Camera, WarCraft III, Mercury Pro DVD-RW Drive, and more...



\$7.99US \$9.99CAN



12>

0 71486 01096 8

Shopping List



Household Articles

DISHWASHING LIQUID ✓
SOAP ✓✓
TOILET PAPER ✓

Meats and Poultry

CHICKEN WINGS
BACON
ROAST BEEF ✓

Fruits and Vegetables

POTATOES ✓
CARROTS ✓
WATERMELON ✓

Desserts

COOKIES ✓✓
ICE CREAM ✓

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HDD

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FEATURES

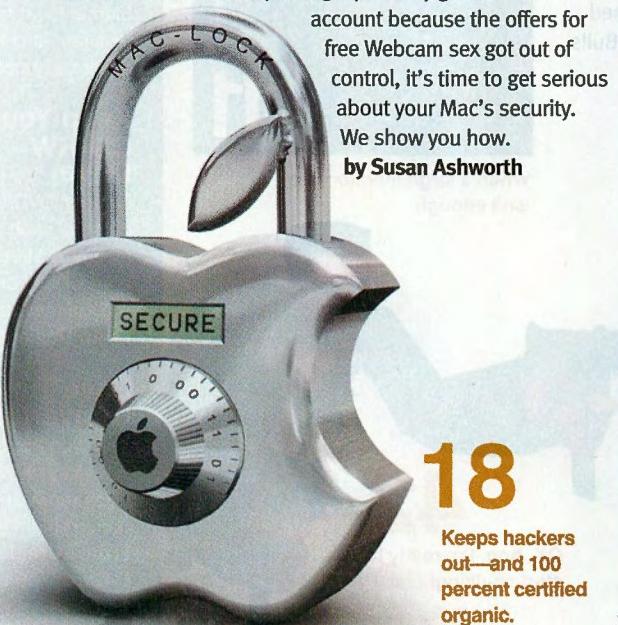
COVER STORY

18 Protect Yourself!

If you've ever had a virus on your Mac, had your identity stolen online, or been forced to stop using a perfectly good email

account because the offers for free Webcam sex got out of control, it's time to get serious about your Mac's security.

We show you how.
by Susan Ashworth

**18**

Keeps hackers out—and 100 percent certified organic.

**25 The Truth**

Learn why you should love your Mac even more than you do and convince those in the dark why the Mac is the best computer in the world. Plus, get advice on how to help them switch over to the Mac if they haven't already.

by Deborah Shadovitz

32 Holiday Wish Lists

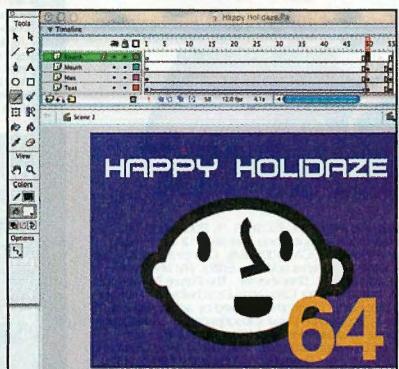
All we want for the holidays is peace, love, and happiness—oh, and a 250GB FireWire hard drive, a laptop bag, a spiffy new \$99 Palm, one of those awesome new Sony entertainment displays, and a whole lot more. Check out our first-annual holiday gift guide.

by the MacAddict Staff

AppleWorks 6												
File Edit Format Calculate Options Window												
B	I	U	T	F	M	A	S	J	C	D	K	L
GET THE RED OUT—BACK IN BLACK, TOUR 2002												
1	INCOME											
2	Paycheck (Net)	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00
3	Freelance	\$1,000.00	\$750.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
4	Other Income	\$100.00										
5	TOTAL INCOME	\$4,000.00	\$3,750.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00
6	CASH WITHDRAWALS	\$240.00	\$200.00	\$150.00	\$100.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00
7	FIXED EXPENSES											
8	Rent	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)	(\$2,000.00)
9	PGE	(\$93.22)	(\$87.45)	(\$85.20)	(\$77.56)	(\$78.21)	(\$79.65)	(\$72.17)	(\$60.04)	(\$59.21)	(\$58.21)	(\$58.21)
10	HDS	(\$15.00)	(\$15.00)	(\$15.00)	(\$15.00)	(\$15.00)	(\$15.00)	(\$15.00)	(\$15.00)	(\$15.00)	(\$15.00)	(\$15.00)
11	Gas	(\$1.49)	(\$1.49)	(\$1.49)	(\$1.49)	(\$1.49)	(\$1.49)	(\$1.49)	(\$1.49)	(\$1.49)	(\$1.49)	(\$1.49)
12	Phone	(\$14.00)	(\$14.00)	(\$14.00)	(\$14.00)	(\$14.00)	(\$14.00)	(\$14.00)	(\$14.00)	(\$14.00)	(\$14.00)	(\$14.00)
13	Cell Phone	(\$43.29)	(\$43.29)	(\$43.29)	(\$43.29)	(\$43.29)	(\$43.29)	(\$43.29)	(\$43.29)	(\$43.29)	(\$43.29)	(\$43.29)
14	Car	(\$12.00)	(\$12.00)	(\$12.00)	(\$12.00)	(\$12.00)	(\$12.00)	(\$12.00)	(\$12.00)	(\$12.00)	(\$12.00)	(\$12.00)
15	Car Insurance	(\$47.69)	(\$47.69)	(\$47.69)	(\$47.69)	(\$47.69)	(\$47.69)	(\$47.69)	(\$47.69)	(\$47.69)	(\$47.69)	(\$47.69)
16	Car Maintenance	(\$111.35)	(\$111.35)	(\$111.35)	(\$111.35)	(\$111.35)	(\$111.35)	(\$111.35)	(\$111.35)	(\$111.35)	(\$111.35)	(\$111.35)
17	Health Insurance	(\$112.95)	(\$112.95)	(\$112.95)	(\$112.95)	(\$112.95)	(\$112.95)	(\$112.95)	(\$112.95)	(\$112.95)	(\$112.95)	(\$112.95)
18	TOTAL EXPENSES	(\$2,550.00)	(\$2,540.00)	(\$2,522.00)	(\$2,517.00)	(\$2,515.00)	(\$2,514.00)	(\$2,513.00)	(\$2,508.00)	(\$2,506.00)	(\$2,505.00)	(\$2,505.00)

60

If only the chumps at Arthur Andersen had Macs.



Because
we care
enough to
send our
merry pest.

HOW TO**58 Ask Us**

Apple built Mac OS X on Unix foundations—so we'll help you learn its powerful intricacies at our new "Unix University," which offers a solution to a Unix quandary every month. Also, find out how hot is too hot for your Mac, how to eject a CD right from the menu bar, and how to make executable files. by Buz Zoller

60 Manage Your Money with Excel

If you're feeling like the economy's out to Scrooge you, design a budget report in Excel or AppleWorks so you can take a long, hard, detailed look at your expenses. by Kris Fong

64 Create an Animated Holiday E-Card

Show off your gumption and imagination to family and friends by sending them more than just a generic holiday e-card. We supply the software and instruction, you provide the weepy sentiment. by Chris Florio

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NO. 76 • VOLUME 7 • ISSUE 12



Cover illustration by Oliver Wolfson

EVERY MONTH

08 Editors' Page

Intel's "Megahertz! Megahertz! Megahertz!" mania can dupe even smart Mac addicts. Don't let it fool you.

10 Get Info

We bring you something old (the Newton), something new (Destineer's Dungeon Siege), something borrowed (warchalking), and something blue (custom-designed Macs). Also, find out how Macs make the Chicago Bulls, Bears, and Blackhawks look good.

39 Reviews

- 50 Axeledge 3D-animation software
- 49 Boa FireWire CD-RW 48X/12X/48X drive
- 44 Dimage 7i 5-megapixel digital camera
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- 48 WarCraft III real-time strategy game
- 50 XPlay iPod-for-Windows utility

54 The Hot List

The best of the best from recent reviews. If the editors of *MacAddict* went shopping, this is what we'd buy.

94 Log Out

94 Letters

The iPod saves the day at a Nordstrom. AirPort livens up a trip to the john. Did aliens kidnap Steve Jobs? Was he the target of a Cupertino coup attempt? And finally, a minor error in one of our reviews brings a reader great joy.

94 Reader Poll

Are you ready to ditch OS 9?

94 Contest Winner

The force is with Stephen Janssen, who won our Extremely Fanatic *Star Wars* Trivia Quiz.

95 This Month's Contest

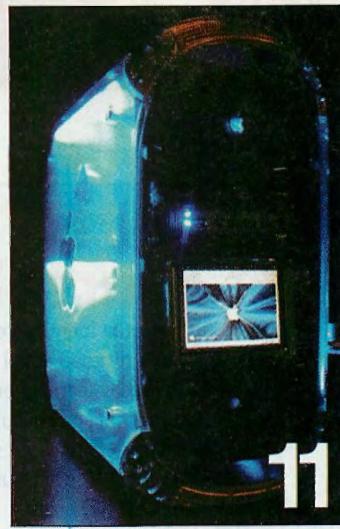
Bulk up your library with five new books from Peachpit Press.

96 Shut Down

A one-finger farewell to OS 9, redissertation, and gag-inducing foot odor—come join us for the fun.

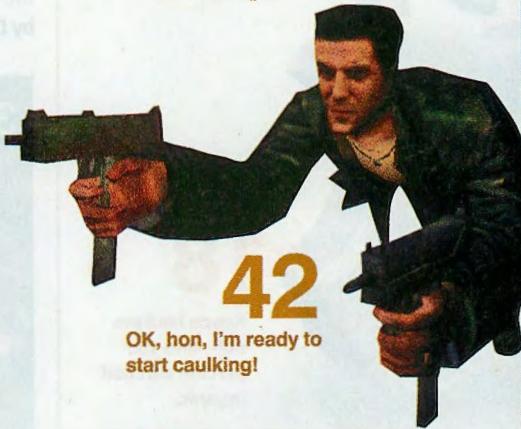
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11

When a large monitor just isn't enough.



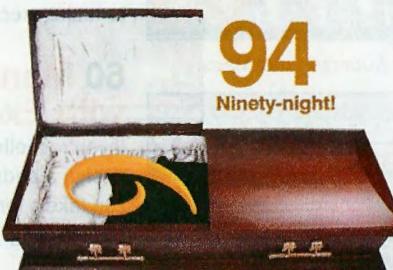
42

OK, hon, I'm ready to start caulking!



44

Oh, there's my contact lens!



94

Ninety-nine!

QUICK TIPS

...from this month's issue.

Don't Buy More Than You Need

If Adobe

Photoshop has more image-editing power than you need, get Photoshop Elements—it has features aplenty for even the most advanced hobbyist. **From Reviews**, p40



Keep Your CD-RW Drive

External DVD/CD

burners, such as the OWC Mercury Pro, are super—but burn CDs at only 8X. It's good to have a DVD burner and a fast CD-RW drive.



From Reviews, p52

Save Time by Not Converting Audio

Don't bother converting hefty AIFF or WAV files to MP3 format when creating a Flash movie. Flash will automatically convert them during the export process. **From "Create an Animated Holiday E-Card," p64**

Send Spam to the Feds

The Federal Trade Commission wants to investigate your spam. Send it to uce@ftc.gov.

From "Protect Yourself!" p18



Use Terminal to Find Directory Info

To see a list of a directory's contents when you're in Terminal, just type `ls` in the Terminal window. **From Ask Us**, p58

```
Terminal - tcsh (tty1)
Last login: Thu Sep 26 12:55:18 on ttys1
Welcome to Darwin!
[node-6-7-] ~% ls
To Be Backed Up Drudeat Microsoft User Data Shared
Applications Incomplete Movies Sites
Archived Docs Installer Logs Music Pictures
Desktop Library Media Public
Documents
```

Prove Your Mac's Value

When PC users say your Mac's too pricey, add up the cost of the extras they have to buy to make their PCs comparable, and you'll find that your Mac is a similar—if not better—value. **From "The Truth,"** p25



Canon Mini DV. When making movies is your life. Or when making a movie of your life.

Consider the professional movie director (who has a bunch of hot-shot producers breathing down his neck). Lucky for him, Canon's XL1S has revolutionized digital video with a fully customizable *Open Architecture* that accepts an enormous range of lenses

XL1S



GL2



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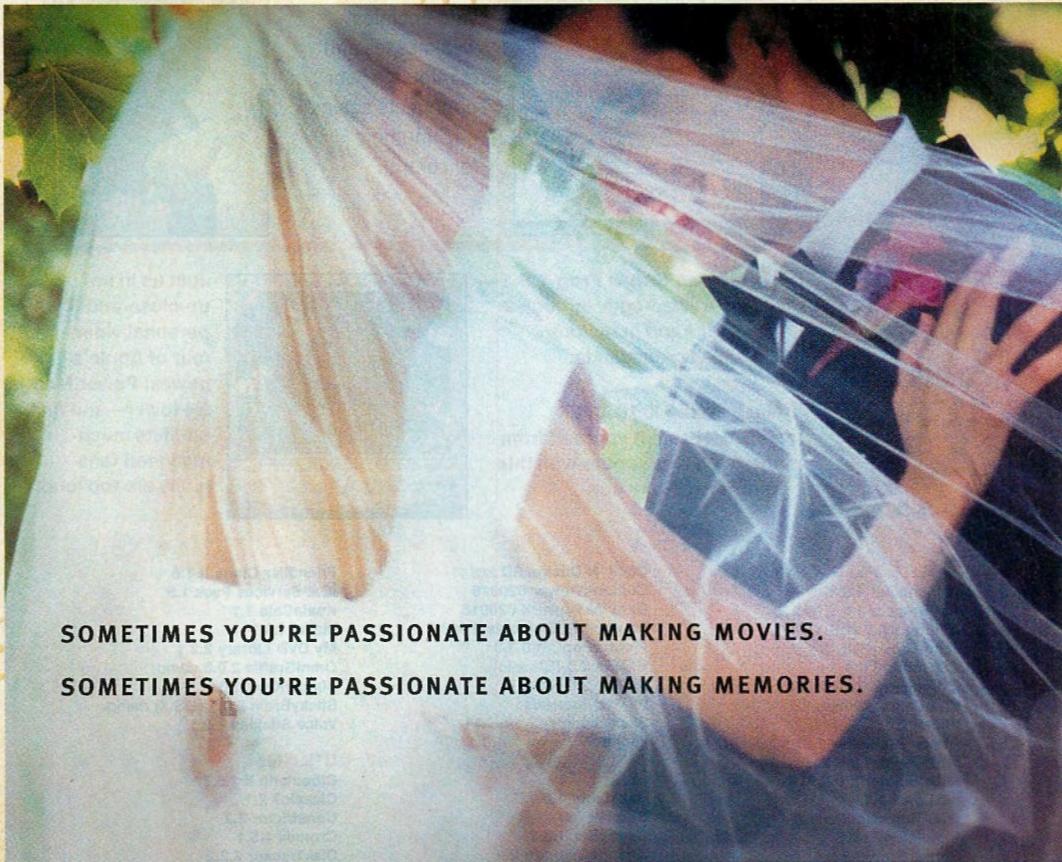
optura 200MC

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Card Photo Printer CP-10

ELURA 40MC

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Canon KNOW HOW™



DECEMBER 2002

theDisc

HEAVYWEIGHT CHAMPS

This month the Disc is packed with 87 apps to help you and your Mac do more than you ever thought possible. But even such a rich assortment has its standouts—and this month's heavyweight champs are Photoshop Elements 2, Giants: Citizen Kabuto, Flash MX, and FileMaker Pro 6.

Photoshop Elements 2 Trial

If you don't need Photoshop's 600 bucks of graphics professionalism, try its little brother, Photoshop Elements. It has most of the tools and features of the full version, along with tons of onboard help and explanations.



Christmas Super Frog 1.6.1—Navigate little froggy through a sea of gifts and gratuitous Christmas propaganda.



NetBarrier X 10.0.4 demo—Protect yourself from shady Web snoopers with this Internet security app.

Giants: Citizen Kabuto Demo

This futuristic sci-fi action thriller will take you to other worlds—if you can survive the trip. Exploit your enemies' weaknesses and manipulate your opponents against one another for control.



Join us in an up-close-and-personal video tour of Apple's newest Power Mac G4 tower—and find out if its much-maligned fans really are too loud.

theList

AUDIO & MUSIC

Air Whisper 1.0.1
Air Whisper 1.0.1 (OS X)
Audion 3.0.2 (OS X)
Auto-Tune RTAS 3.1 demo
CDFinder 3.6.4
CDFinder 3.6.4 (OS X)
iCal Calling iTunes 1.1
iSleep 2.0
iTunes Publisher 2.6
MIDI Builder 020915
MIDI Builder X 020915
netTunes 1.15
PTHiTunesNotifier 1.0.1
SimpleSynth 0.6
Sound Studio 2.0.4
Sound Studio 2.0.4 (OS X)
SpeakNSave 1.2

DEVELOPMENT

Flash MX trial

Freeway 3.5.5 trial

FUN & GAMES

Bounce Out demo
Brickles3000 2.0.1
Brickles3000 2.0.1 (OS X)
BridgePro trial
Christmas Super Frog 1.6.1
Christmas Super Frog X 1.6.1
Giants: Citizen Kabuto demo
ILuxo 1.8
Our Neighbors 1.0
TACS 1.2
WingNuts 1.2.2 demo

GRAPHICS & MULTIMEDIA

Axeledge 1.5.3 trial

Cartoon Editor 1.31

Click 'N Design 3D trial

ClipLinkViewer 020916
ClipLinkViewerX 020916
Photoshop Elements 2 trial
PicturePopCM 0.3.3
PTMac 2.0 (Classic)
PTMac 2.0 (OS X)
PTMac Tutorials
Slick Sampler
Vacation Viewer X 1.0.1

INTERFACE

BackLight 1.6
Blobber 2.0
CandyBar 1.0.1
ChangeDesktop 2.2
DeskShade Plus 1.0.1
Desktaastic 2.0
FocusLayer 1.2
iChoose 0.5
IconIt 1.1.8
Startup Syringe 1.0.3
xBack 2.1.1

INTERNET & COMMUNICATION

Chimera 0.5
MacReporter 1.1.2

PRODUCTIVITY

AccountEdge 2 (OS X) trial
AquaCalendar 1.25
Chartsmith 1.0.1 demo
Daylite PE 1.0.5 trial
FastTrack Schedule 8.0.1 trial
FileMaker Pro 6 (OS X) trial

Friendlier Claris It 1.6

iCal Services Pack 1.5
KoalaCalc 1.1
Mellel 1.3.1
My DVD Library 2.2.1
OmniGraffle 2.0.8 demo
SimpleKeys 1.0.6
StickyBrain 2.0.1 (OS X) demo
Voice Sticks 1.0.1

UTILITIES

Cboulette X 1.5.7
Classic? 2.1
Constrictor 2.2
Cronnix 1.5.1
DiskTracker 2.2.2
DiskTracker 2.2.2 (OS X)
HotApp 1.6
iMeMiner 1.1.2 demo
LockOut X 4.4
MacStumbler 0.6b
NetBarrier X 10.0.4 demo
Pop-Up Zapper Lite 1.1
Pop-Up Zapper 1.61 (OS X)
PopChar X 1.3
TinkerTool 2.31
VirusBarrier X 10.0.1 demo
Who's There? 1.3 (OS X) demo

SPONSORS

DriveSavers: DriveSavers
Commercial
mask, LLC: BridgePro 1.0.013 trial
MYOB: AccountEdge 2 (OS X) trial

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MacAddict

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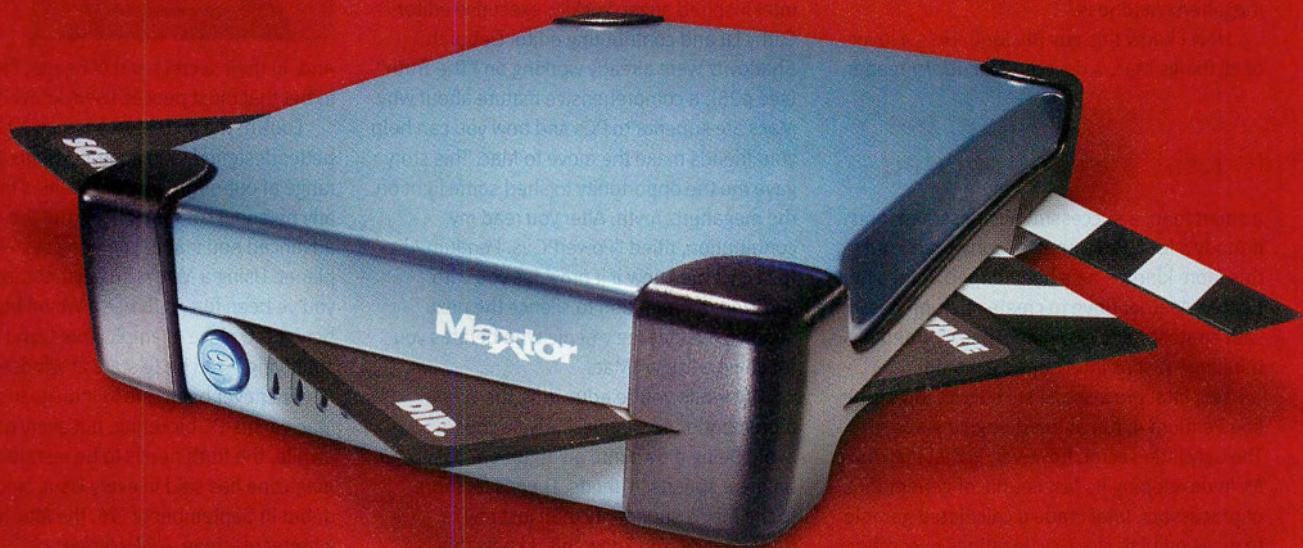
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Volume 7, Issue 12

MacAddict (ISSN 1088-548X) is published monthly by Future Network USA, 150 North Hill Dr., Brisbane, CA 94005, USA. Periodical-class postage paid at Brisbane, CA, and at additional mailing offices. Newsstand distribution is handled by Curtis Circulation Co. Basic subscription rates: one year (12 issues + 12 CD-ROMs) U.S. \$39.90, Canada \$43.95, U.S. prepaid funds only. Canadian price includes postage and GST 128220688. IPM 0962392. Outside the U.S. and Canada, price is \$53.95, U.S. prepaid funds only. POSTMASTER: Send address changes to *MacAddict*, P.O. Box 5126, Harlan, IA 51593-0626. Future Network USA also publishes *Maximum PC*, *PC Gamer*, *Official Xbox Magazine* and *PSM*. Entire contents copyright 2002, Future Network USA. All rights reserved. Reproduction in whole or in part is prohibited. Imagine Media, Inc. is not affiliated with the companies or products covered in *MacAddict*. Ride-Along enclosed in the following editions: A3, B, B1, B2, B3, B4 PRODUCED IN THE UNITED STATES OF AMERICA.

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A Better Machine

There I was, enthusiastically rooting for my daughter's high school volleyball team (go Red Devils!) as they were equally enthusiastically crushing yet another hapless opponent, when one of the other parents turned to me and said, "You know, I really like Macs, but I wish Apple would use more up-to-date components."

"Oh, no," thought I, "another victim of megahertz madness."

Now I know this guy (hi, Jon!). He's a lover of all things Mac, a devoted *MacAddict* reader,

microprocessor-design improvements, betting that people would be so dazzled that they would ignore other performance metrics.

Intel won that bet. Big time. Today, even Mac addicts like Jon feel their precious Macs are lagging behind those multigigahertz PCs that that clown from Dell is hawking. So, thanks to my chance encounter with Jon, I decided to do something about my fellow Mac lovers' Intel-inspired angst. Luckily, executive editor Cathy Lu and contributing editor Deborah Shadovitz were already working on "The Truth" (see p25), a comprehensive feature about why Macs are superior to PCs and how you can help your friends make the move to Mac. This story gave me the opportunity to shed some light on the megahertz myth. After you read my contribution, titled "PowerPC vs. Pentium 4" (p31), let me know if it provides you with sufficient ammunition to silence the next supercilious peccy weenie who berates you for using a "slow" Mac.

But while you're educating the aforementioned weenie, I advise you to avoid being drawn into an argument based on mere speeds 'n' feeds. There's far more to the Mac's superiority than just raw performance. You know this. I know this.



Rik does his imitation of an Intel exec pimping a high-clock-rate CPU.

And, in their secret heart of hearts, I'm willing to bet that most peccy users know it as well.

Look at the facts: Macs are easier to use, better designed, and equipped with a broader range of out-of-the-box capabilities than any personal computer. They run the most advanced and stable operating system on the planet. Using a Mac is an aesthetic joy—and if you've been forced to use a Wintel box at some benighted place of employment, you know how stultifying it can be to stare at Windows all day.

I've never been one to indulge in pointless Mac-versus-PC bickering, but every once in awhile, the truth needs to be restated. As this magazine has said in every issue since our debut in September of '96, the Mac is simply a better machine.—Rik Myslewski

Every once in a while, the truth needs to be restated.

a smart man, a successful businessman, and nobody's fool. But—and I'm sorry I can't put this more kindly—he's been duped. Intel's hell-bent-for-leather drive to create microprocessors with stratospheric clock rates has clouded his thinking—just as Intel hoped it would.

Yes, Intel processors, such as its top-of-the-line Pentium 4, run at mind-boggling speeds. The ugly little secret, however, is that they have to. In developing its last couple of generations of processors, Intel made a calculated gamble to focus on high clock-cycle ratings over other

STAFF RANTS

Q1: Why do you use a Mac?

Q2: Have you ever had to use a PC?

Niko Coucoubanis Refibrillator

Why do you use a Mac?

My people are educators and scientists, so I pretty much grew up with Macs. That, and Johnny Cash told me to in a dream.

Have you ever had to use a PC?

Only briefly, doing some freelance work. I insisted on taking it home so I could keep my state sufficiently altered while using it. I lost a year or three there, but now OS X's spinning beachball/pinwheel shenanigans have given me back some of that time in the form of nasty flashbacks.



Leslie Osborn Apple Ingénue

Why do you use a Mac?

School started me young. I used my first Apple IIe when I was six. Luckily the machines have amped up since then.

Have you ever had to use a PC?

In college, when I worked for a print shop run by color-blind brothers. We made proofs on a bubble-jet printer. Somehow, a PC seemed appropriate for a place like that.



Kris Fong Politically Aware

But Not PC

Why do you use a Mac?

Apeiron, Digital Performer, SimStapler—are you kidding?! They just don't make this kind of stuff for a PC.

Have you ever had to use a PC?

Unfortunately, my initiation came via a stint as editor of *Digital Musician*, a cross-platform mag. My loaner PC was not only plagued with the Chernobyl virus, but also it had over 75 Microsoft ones. Thanks to Bill Gates for validating my computer of choice.



Chris Imlay Of The Hill Peoples

Why do you use a Mac?

Because...the sky is blue?

Have you ever had to use a PC?

Six months of Photoshop 4 on a PC. When I came back to Mac, it felt like I was getting into a BMW M3 after driving around in a cheaply tricked-out Honda Civic. You know, like with the neon lights and day-glow wiper vents?



Cathy Lu iChatty Cathy

Why do you use a Mac?

Because it makes everything so much easier, thus giving me more time to troubleshoot my parents' PC.

Have you ever had to use a PC?

Yes, and I got a virus that erased my hard drive as well as the hard drive of our VP of finance. Luckily, the company was a dot-com, so we didn't have any finances.



Narasu Rebbapragna Self-Expressitor

Why do you use a Mac?

Why did Van Gogh use a paintbrush?

Have you ever had to use a PC?

No, I like my ear where it is, thank you very much.



Jenifer Morgan Aspiring Taoist

Why do you use a Mac?

It tricks me into thinking life is simple.

Have you ever had to use a PC?

Yes, at a former job.

Analogy that come to mind include eating rusty barbed wire, noticing a hangnail while stuck watching a parade, and enduring a neighborhood car-alarm party.



Cyrus Farivar The Glowering Interno

Why do you use a Mac?

Who wouldn't want a computer designed by a guy who has his own personal "reality distortion field"?

Have you ever had to use a PC?

Only when I really needed to play Minesweeper. That's pretty much all Windows is good for, anyway. Well, maybe Solitaire, as well.



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THE NEW NEWTON THING

The Old Apple PDA Is Alive and Kicking

Newtons have always been ahead of their time. Sir Isaac Newton invented calculus and discovered gravity. The Fig Newton was healthy and low-fat well before we started to care about all that. Juice Newton was—well, never mind. This brings us to the Apple Newton, the discontinued PDA that thrived long before the Palm revolution.

What we affectionately call the Newton is really two lines of hardware, the MessagePad and the eMate, that run the Newton operating system. In 1993, Apple launched the original MessagePad, and in 1994 it revamped the hardware and software with the MessagePad 120 and the Newton 2.0 operating system. The line peaked in 1997 with the education-targeted eMate 300 and MessagePad 2000

Even after death, the Newton lives.

and 2100, but died young when Apple discontinued development in 1998.

MessagePads look a lot like Palm OS-based handhelds, just bigger and chunkier. eMates have an integrated keyboard. As with the Palm devices, you can use both Newtons to schedule appointments, store contact info, and write notes. Because you can connect Newtons to modems (even wireless ones), they make great e-machines for surfing the Internet, sending email, and transmitting faxes.

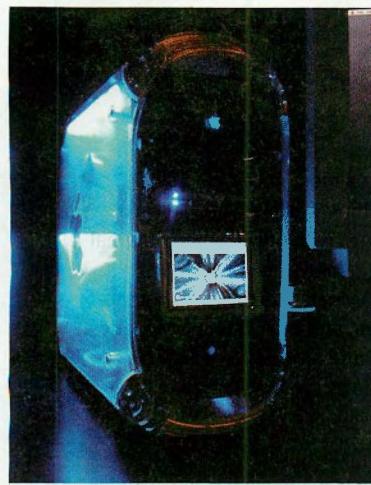
The MessagePad was even designed to learn your natural handwriting over time, although some users never really got this

feature to work and either dumped their Newtons or used an optional keyboard instead.

Still, some swear by the Newton's handwriting recognition as opposed to Palm's nonintuitive Graffiti input language. "Everyone uses Palms and so on, but isn't [Graffiti] the wrong way?" says Stefan Eschenbach, a 43-year-old German graphic designer. "The computer should learn the writing of his master." Eschenbach formerly used a MessagePad 130, but upgraded to a MessagePad 2100 for the faster processor.

Even after death, the Newton lives. Woo Lee, president of the Los Angeles Newton Users Group (LANUG), has four Newton MessagePad 2100s, two with Pixsolution (www.pixsolution.com) 215MHz processor upgrades, as well as two eMate 300s. He syncs information with Palm OS, Mac, Windows, and Unix platforms, and accesses AirPort Base Stations using wireless cards.

All work and no play make for a very boring Newton, so Lee uses his devices to play games, control his entertainment devices remotely, and listen to music via an iTunes plug-in. The Mad Newton and Mad



THE MOD SQUAD

When Out-of-the-Box Isn't Good Enough

Modifying computer cases, or *case modding*, isn't just a PC geek's pastime. There's a whole Mac-mod community, whose creations range from the complex to the sublimely simple. Here's a trio of impressive examples. While these Macs definitely void the warranty, we think they're worth the risk.—Cyrus Farivar

Bluelce G4

MODDER Kent Salas

MOD CONSTRUCTION TIME One month

MOD MAKEUP This Mac is proof positive that it doesn't take an electronics genius to make a good-looking mod. Kent first installed a glowing blue internal light and added five USB ports to the front of the tower. He then painted the USB hub silver and replaced the internal speaker with a 5-inch LCD. For more information, see Kent's Web site (www.kentsalas.com/blueiceg4).

You'll never find me at the Apple Store.



illuminatedMac

MODDER Matthew Riley

MOD CONSTRUCTION TIME One hour

MOD MAKEUP In this cheap yet effective mod, Matthew tricked out his CRT iMac DV 400 MHz with the computing equivalent of underbody auto lights. These neon strips light up the computer and most of the room—all for only about \$60. See Matthew's page (www.applefritter.com/hacks/illuminatedmac/index.html) on the AppleFitter site for more information.



This Mac could have its own sideshow.

Mac Slate Tablet

MODDER Jeff Paradiso

MOD CONSTRUCTION TIME Ten hours

MOD MAKEUP Starting with a first-generation iBook, into which an LCD touchscreen had already been installed, Jeff modded it by cutting away the outside shell of the iBook and turning the touchscreen around so it faced outside. In addition, the new Slate Tablet sports an AirPort card, so Jeff, a Bostonian graphic designer, uses it to monitor his home wireless network and to surf the Net from his couch. See Jeff's Web site (www.thefreaks.com/tablet) for more information.



Keyboard, shmeebard.

NEW STUFF

RIO S10 AND S30S

SonicBlue, www.sonicblue.com, \$129.99 (S10) and \$149.99 (S30S)
Available: Now

SonicBlue has released two Flash media-based portable MP3 players. The Rio S10 and S30S pack in 64MB (upgradable to 192MB) of music, a backlit screen, a clock, and a stopwatch. The S30S gives you FM radio as well.



Square is so square.

SENERGY 981

Princeton Graphic Systems, www.pgr.com, \$1,241
Available: Now

This 19-inch TFT LCD supports sRGB and Enhanced sRGB color modes, DVI and VGA output, and integrated speakers. Mounted on a lazy Susan-style base, the monitor rotates, elevates, and tilts easily. A single dial on the side adjusts color, brightness, and picture settings.



See Laura Ingalls Wilder at her best.

SHAREWARE PICK OF THE MONTH

iCHOOSE

Lucky Software www.luckysoftware.dk Free

This menu-bar widget lets you go straight to your favorite Web sites with one click. iChoose is a system preference pane that stores your favorite Internet links in a pop-up list you can access from the menu bar.

To customize the list, click the Add button, then type the link's name and URL. If you already have the page open in a browser, simply drag the link icon into iChoose to add an entry. Folders, subfolders, and separators categorize and tidy up your list.

This is smart and simple integration at work—and best of all, it's free.—Andrew Tokuda



One click in the menu bar takes you to your favorite Web site.



DROOLWORTHY

Sexy Stuff We Can't Wait to Get Our Mitts On



This tiny 2-megapixel camera brings new meaning to the term **wallet-size pictures**.

Camedia C-50 Zoom

Olympus www.olympus.com \$599

Here's a figure that makes our mouths water: 5 megapixels for \$599. Olympus's Camedia C-50 Zoom combines a 3X optical zoom with a 4X digital zoom, all in a slick silver body. The camera's scene-program modes let you expertly shoot portraits, sports, and landscapes, or you can play with a full range of manual controls. The Camedia C-50 Zoom syncs to your Mac with USB and takes only Olympus's new high-capacity xD-Picture Cards. It should be out by the time you read this.—NR

Exilim EX-S2

Casio <http://exilim.casio.com> \$299.99

This credit card-size camera almost fits in your wallet, since it's just half an inch thick. Casio's 2-megapixel Exilim EX-S2 digital camera comes with only 12MB of internal memory but also accepts SD and MMC memory cards. It records up to 30 seconds of AVI video, has a digital (not the more desirable optical) 4X zoom, and offers six image modes, including portrait, night scene, and retro-style sepia. The Exilim EX-S2 should be available by the time you read this.

—Cyrus Farivar



This 5-megapixel \$599 camera is cheap, but in a good way.

WARCHALK THIS WAY

Tagging for Free Internet Access

Armed with wireless-networking enabled laptops and pieces of chalk, urban cyber-sniffs are spreading a new underground language: warchalking.

This simple language of symbols, when scrawled on a sidewalk or building, alerts passersby to nearby wireless Internet access. See "Warchalking Words," below, for definitions of common symbols, and check out the warchalking community site (www.warchalking.org/section/symbols) for more information.

A warchalking symbol—for example on the pavement in front of a

café—means that anyone in that vicinity can pop open a wireless-enabled laptop, scan for networks, and surf. Mac-using warchalkers sometimes equip themselves with freeware like MacStumbler (<http://homepage.mac.com/macstumbler>) to obtain detailed network information.

Warchalking gets its name from wardriving, a practice where laptop users with a wireless networking card drive around searching for available bandwidth.

Luckily, the vast majority of warchalkers are benign souls looking for free Internet access or the thrill of bagging a bit of clandestine bandwidth.—Cyrus Farivar



X marks the spot for free Internet access.

Warchalking Words

Here's what the basic chalk symbols stand for:



ON THE DISC
MacStumbler 0.6b



OPEN NODE

A wireless network is available.



CLOSED NODE

Sorry, no dice. This network is closed.



PROTECTED NODE

The password for this node is inside the circle.

stretch your imagination



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YAMAHA

SHOCKING GAMES

Free, Fun Internet Games at Shockwave.com

If you're bored and broke, log onto the Shockwave Web site (www.shockwave.com) and play more than 100 free games in 11 different categories, including Action/Adventure, Puzzle Games, and Sports. (The Cash Contests games require Microsoft Windows' Active-X—sorry.) You'll have to put up with flashing advertisements and solicitations, but what do you expect for free?—NR



TAMALE LOCO: RUMBLE IN THE DESERT II

Skunk Studios
(www.skunkstudios.com)
In this Southwestern Super Mario-style arcade game, play a mouse that builds a burrito—all for the bee-yoo-tiful Esmerelda.



SHOCKWAVE TETRIS

Blue Planet Software
(www.tetris.com) and CleverMedia
(www.clevermedia.com)
As in the original game, you move pieces to complete rows of blocks, all to a jazzed-up rendition of the original Tetris tune.



REAL POOL 3D

Digital Fusion (fusiongames.com)
Thanks to Shockwave's 3D graphics, you can shoot pool against the craftiest sharks in the hall.



ALIEN X

The Groove Alliance
(www.3dgroove.com)
This bona-fide first-person shooter comes with mouselook (for different viewing angles), multiple weapons, a bot-riddled space station, and cool sound effects.



BOUNCE OUT

GameHouse
(www.gamehouse.com; demo on the Disc)
Arrange rubber balls in rows of three or more and watch them bounce out of the game board. This game is addictive.



DAILY JIGSAW

Various developers
If you like jigsaws, try Shockwave's jigsaw puzzle du jour, which you can play at easy, medium, and hard skill levels.

GAMES NEWS

Dungeon Siege

Destineer, www.destineerstudios.com, \$50

Available: Early 2003

Here's an RPG with testosterone (or estrogen, for the ladies) that's heavy on fighting but light on the screen-loading delays. Alone or in a group of up to eight, you explore a lush 3D world complete with secret underground chasms. Strategize with your band of sisters or brothers and fight in formation.



What is your quest?

Kick Off

Freeverse, www.freeverse.com, \$29.95

Available: End of 2002

Soccer comes to the Mac. This fast-paced footie gala comes with 204 16-player teams, ranked according to the current ratings of the FIFA (Fédération Internationale de Football Association). Each player comes with different skills and strengths, and there are one- and two-player options.



Experience the excitement of English soccer without the beer-guzzling thugs.

Bugdom 2

Pangea Software, www.pangeasoft.net, \$34.95

(\$30 for download)

Available: End of 2002

When the first Bugdom arrived, Mac users fell in love with the little bug protagonist and the game's neat graphics. Version two of this kid-friendly title has more adventure. This time you play Skip the Grasshopper, who gets robbed by Bully Bee and conspires with talking characters to find his belongings.



Bugdom 2's quirky characters are hiss-terical.

UNREAL FOR X

Epic Games Working on Mac Version

Hear ye, hear ye: Unreal Tournament 2003 is coming to the Mac. Gaming Web sites trumpeted the news, not that it was easy to get. Epic Games vice president Mark Rein leaked the information in a discreet posting on the Infogrames Unreal Tournament 2003 forums (www.unrealtournament2003.com). Rein told us Epic Games hopes to have the Mac version in stores in time for Christmas—and the graphic-intensive game will be for Mac OS X only.

Published by Infogrames (MacSoft on the Mac), the award-winning Unreal Tournament series is a gladiator-style, futuristic shooting frenzy. In a recent nVidia (www.nvidia.com) interview, Epic lead designer Eric Bleszinski said the AI of Unreal Tournament 2003 is more realistic than in past games, bots play like humans, and there's a brand-new game called Bombing Run (think football with guns).

CONFIDENCE



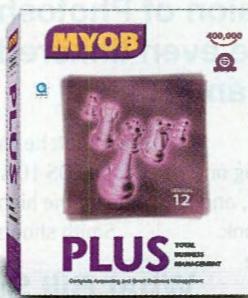
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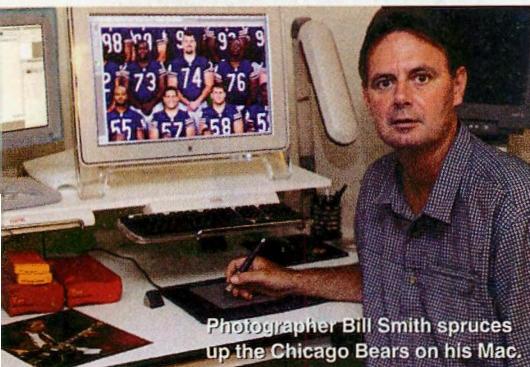
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IN THE STUDIO

SHOOT WITH THE PROS

Photographer Bill Smith Talks Digital

Chicago sports teams owe a lot to the Mac—just ask their photographer, Bill Smith. Smith has photographed the Chicago Bulls for 27 years, the Chicago Bears for 25 years, and the Chicago Blackhawks for three years. If you're a Mac fanatic like Smith, the excitement goes way past the arena—back to a one-man office stuffed to the gills with ten Macs, three industrial-strength scanners, two silver halide printers, and a Newton.



Photographer Bill Smith spruces up the Chicago Bears on his Mac.

While double-digit Macs might seem like overkill, they come in handy during the 14-hour-a-day, seven-day-a-week sports season. Smith can retouch photos on his 867MHz Power Mac G4, edit video on his 450MHz G4, scan slides on his 9500 and

He has owned every version of Photoshop since the 0.9 beta, and he even tinkered with its daddy, BarneyScan XP.

9600 Power Macs connected to Scitex Leafscan 45 scanners, do his accounting on the G3 PowerBooks, print from an iMac, and burn photo CDs on the road with an iBook. The Newton acts as a glorified message pad with Internet access.

Smith's equipment fetish originated a long time ago with an Apple IIc, which he followed up with an Apple IIg, a Mac SE, and a Mac IIcx. He has owned every version of Photoshop since the 0.9 beta, and he even tinkered with its daddy—BarneyScan XP, bundled software that came with a 35mm film scanner.

Smith prefers digital to film for his photo-journalistic work. "In the 35mm world, you're not gaining anything by putting film in the camera," he says,

adding that digital has a wider tonal range in whites and blacks. However, Smith hasn't abandoned film and still whips out a German Leica on two occasions: when he wants the look of film grain and when he's taking wide-angle shots. "...In a wide-angle [shot], where all the detail is this tiny, minute detail, film probably still has the advantage," he says.

What Smith shoots with depends on where he is (see "What Bill Smith Uses Where, and Why," below, for more info). For fast-action sports photography, Smith uses either an 8-fps Canon EOS 1D or a 5-fps Nikon D1H. While he likes the 6-megapixel quality on his Nikon D1X, at 3 fps, it's too slow for outdoor work where he's shooting sequential action. However, the Nikon D1X is appropriate for indoor events, where Smith hooks himself up

via a sync cord to strobe lights. Since the strobes need to recharge for 2 seconds after

each shot, he can't take advantage of the Canon EOS 1D's faster burst modes, so he opts for the high quality of the Nikon D1X.

Smith shoots in high-resolution JPEG



Bill Smith's D1X captures Jay Williams mid-air.



mode, about 1,000 images per football game and 250 images per basketball game. He stores his pictures on 1GB Lexar CompactFlash cards, and shoots in uncompressed raw, 16-bit color mode at night or indoors at concerts.

Smith also uses Macs for making prints. His seven-color Epson Stylus Pro 7600 prints images 24 inches wide, and his Fuji Pictography 4000 II makes 12-by-18-inch silver-halide, continuous-tone prints—essentially turning his overstuffed studio into a poster plant.

Smith has seen 27 years of sports one frame at a time. While the Mac can't substitute for his expert eye, it ensures that you see exactly what he does.—Narasu Rebba Pragada

What Bill Smith Uses Where, and Why

All of his cameras travel a lot, but not to the same places.

Where	BEAR GAMES	ROCK CONCERTS	BULLS GAMES	MAGAZINE COVER SHOOTS
What	Canon EOS 1D and Nikon D1H	Nikon D1X	Nikon D1X	Canon EOS D60 or Nikon D1X
Why	Smith needs fast-action burst modes to capture the sequential events of outdoor sports.	The 6-megapixel CCD is good for low-light situations.	Since Smith's hooked up to strobes anyway, the D1X's 3-fps burst mode doesn't slow him down.	The Canon's 6.3-megapixel CMOS chip and the Nikon's 6-megapixel CCD offer exceptional quality.

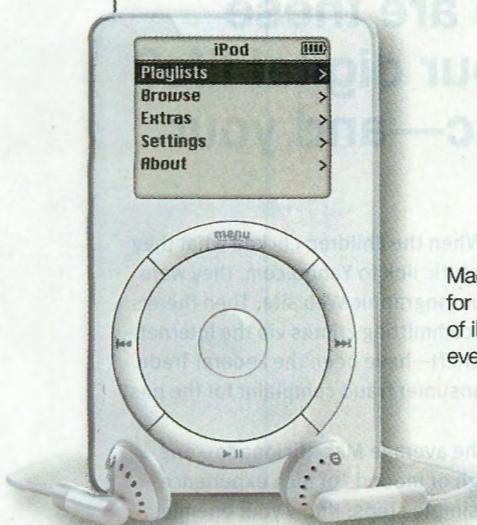
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Protect Yourself!

Spammers. Hackers. Virus spreaders. Thieves. They can trash your computer, your bank accounts, and your sanity. Who are these nefarious creatures invading your digital life? And how can you keep your Mac—and your life—safe from them?

Call them what you want: Misanthropes. Pirates. Losers with too much time on their hands.

Whatever their monikers, these unsavory creatures of the Internet age have one major goal: to make your life hellish by stealing, selling, manipulating, and ruining your personal life via that innocuous little machine sitting on your desk—your Mac.

Think Internet crime isn't a huge problem? Think again.

Consider that despite extraordinary security measures, hackers still found a way to break into USA Today.com in early July to post fake news stories on the site's home page. Or that a group of spammers recently sent emails to thousands of kids, telling them they had won new

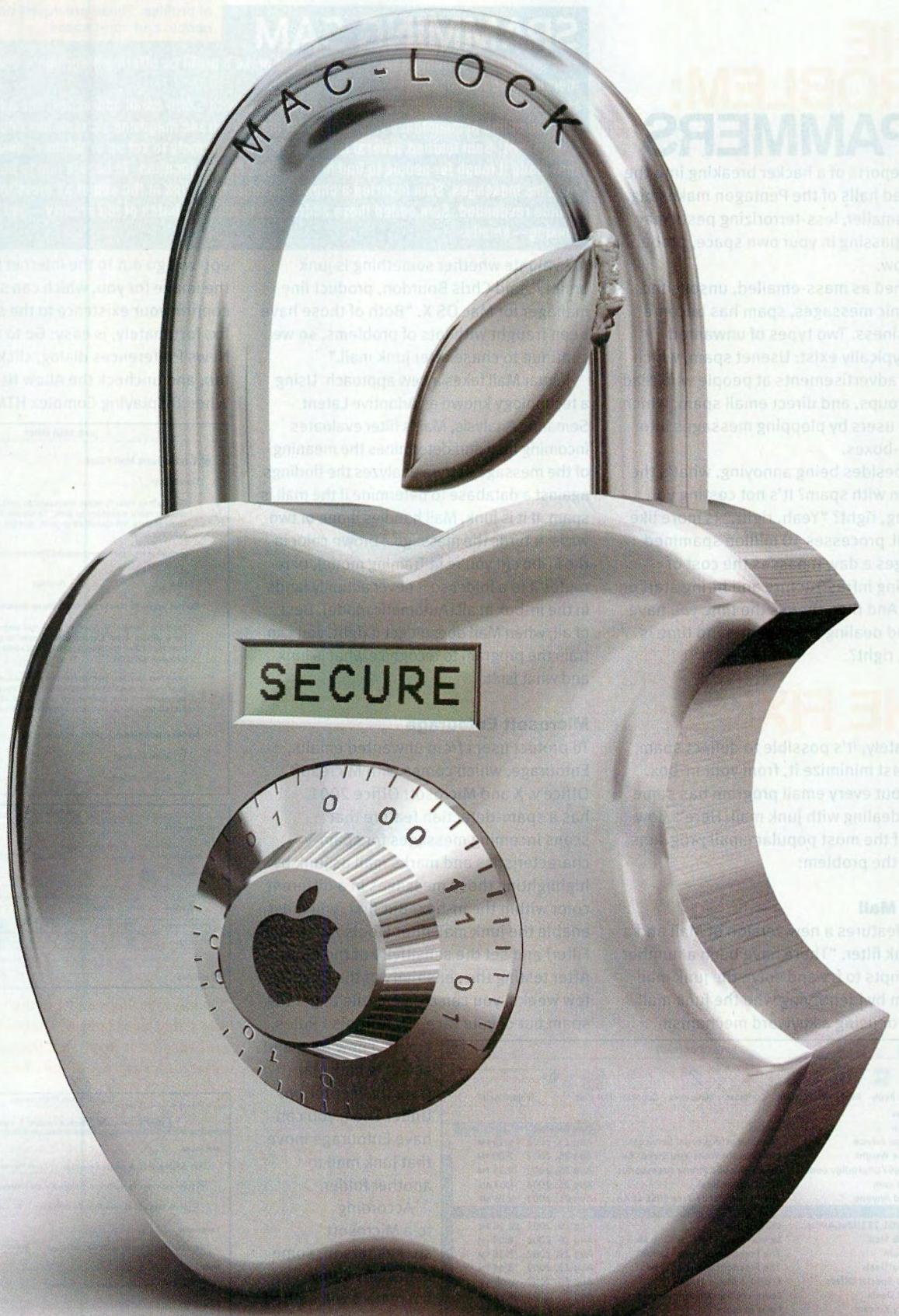
Sony PlayStations. When the children clicked what they thought was an authentic link to Yahoo.com, they were instead routed to a pornographic Web site. Then there's the fact that thieves committing crimes via the Internet—specifically identity theft—have been the Federal Trade Commission's top consumer fraud complaint for the past two years in a row.

Great. So what's the average Mac aficionado—one without bags of dough or mounds of tech experience—to do? Follow three simple steps: Know your enemies, understand how they infiltrate your computer, and be aware of some of the newest methods to protect yourself.

by Susan Ashworth
illustration by Oliver Wolfson



Who's There? 1.3 demo, Lock Out X 4.4, NetBarrier X 10.0.4 demo, VirusBarrier X 10.0.1 demo, Clbolette X 1.5.7, and *Internet Security for Your Macintosh: Chapter 2* excerpt



MacAddict.com

Get the latest news, reviews, and software updates for your Mac.

THE PROBLEM: SPAMMERS

While reports of a hacker breaking into the hallowed halls of the Pentagon makes big news, smaller, less-terrorizing pests may be trespassing in your own space, probably right now.

Defined as mass-emailed, unsolicited electronic messages, spam has become big business. Two types of unwanted spam typically exist: Usenet spam, which throws advertisements at people who read newsgroups, and direct email spam, which targets users by plopping messages into their in-boxes.

But besides being annoying, what's the problem with spam? It's not costing you anything, right? "Yeah, right," is more like it. If AOL processes 10 million spammed messages a day, it passes the cost of improving infrastructure and hiring staff on to you. And then there's the time you have to spend dealing with spam—and time is money, right?

THE FIX:

Fortunately, it's possible to deflect spam, or at least minimize it, from your in-box. Just about every email program has some way of dealing with junk mail. Here's how some of the most popular email programs handle the problem:

Apple Mail

Jaguar features a new version of Mail and a new junk filter. "There have been a number of attempts to try and solve the junk mail problem by identifying who the junk mail is from or using a keyword mechanism

SPAMMING SAM

His profile: Spamming Sam found he could make a profit by offering illegitimate deals for free merchandise to consumers.

His crime: Sam illegally purchased a mailing list with 5,000 email addresses. The addresses came from an online acquaintance who swiped them from a trade magazine's circulation department.

His talent: Sam learned several tricks of the trade, namely to set up a "dummy" email address that made it tough for people to find his true identity and location. To enable him to better track who read his messages, Sam inserted a phony "unsubscribe" link at the end of all messages. When people responded, Sam added those addresses to his next batch of top priority—and high sucker ranking—emails.

to evaluate whether something is junk or not," said Chris Bourdon, product line manager for Mac OS X. "Both of those have been fraught with lots of problems, so we continue to chase after junk mail."

Jaguar Mail takes a new approach. Using a technology known as Adaptive Latent Semantic Analysis, Mail's filter evaluates incoming mail and determines the meaning of the message. It then analyzes the findings against a database to determine if the mail is spam. If it is junk, Mail handles it one of two ways: It turns the message a brown color in the in-box (if you're in Training mode), or re-routes it to a folder so it never actually lands in the in-box at all (Automatic mode). Best of all, when Mail doesn't get it right, you can train the program to recognize what is junk and what isn't.

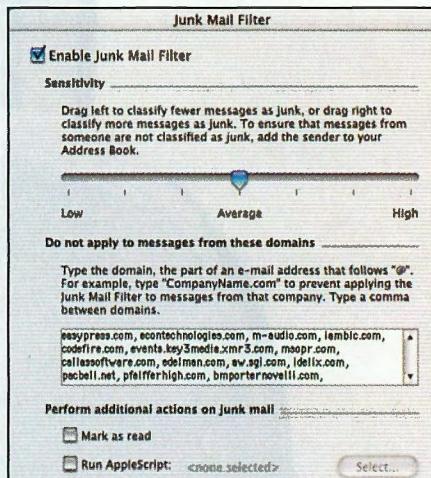
Microsoft Entourage

To protect users from unwanted emails, Entourage, which comes with Microsoft Office v. X and Microsoft Office 2001, has a spam-detection feature that scans incoming messages for spam-y characteristics and marks mail as junk by highlighting those messages in a different color within the in-box. But first, you must enable the junk mail filter (Tools > Junk Mail Filter) and set the sensitivity of the filter. After testing the sensitivity of the filter for a few weeks, you can create a rule to get the spam out of your face. Go to Tools > Rules, create a new rule, and select Is Junk Mail from the If criterion.

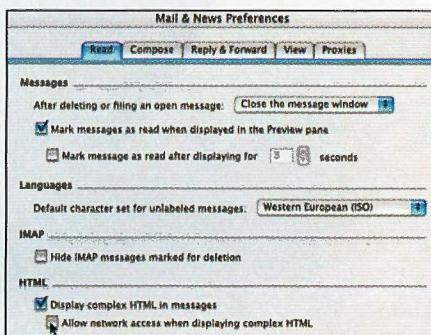
Under Then, you can have Entourage move that junk mail to another folder.

According to a Microsoft spokesperson, some especially slimy spammers will embed an image URL into a piece of junk mail. When you view the message, your email

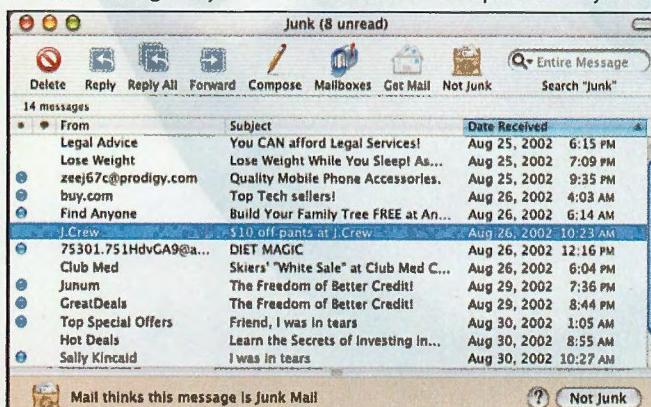
app will go out to the Internet to grab the image for you, which can sometimes confirm your existence to the spammer. The fix, fortunately, is easy: Go to the Mail and News Preferences dialog, click the Read tab, and uncheck the Allow Network Access When Displaying Complex HTML box.



To separate the men from the boys (that is, real email from spam), enable Entourage's junk mail filter (top), and then set up a rule to get it out of sight and out of mind (bottom).



To further discourage spam, in Entourage, disable network access for HTML messages.



Noooo! We want that \$10 off from J. Crew! Just click Not Junk and Mail will no longer discard emails from your favorite e-tailer.

MYTH Clicking "unsubscribe" will actually remove you from a spammer's list.

FACT It ensures that you stay on for another batch of spam.

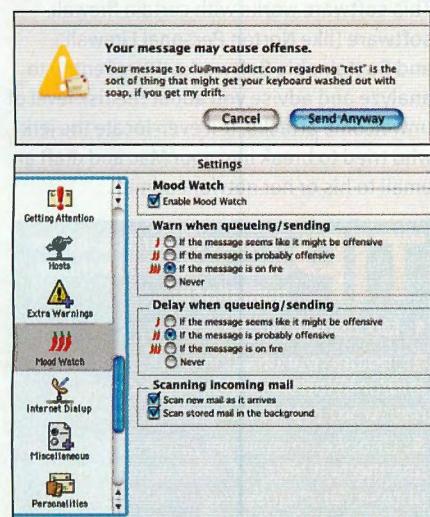


To help users better manage unwanted email, Eudora includes customizable filters that can either transfer mail to a different mailbox or delete it altogether.

Qualcomm Eudora

To help you better manage spam, Eudora includes a customizable filtering system that allows you to create either simple or detailed filters. To create a simple filter, open your in-box and select a piece o' spam. Go to Special > Make Filter, and from that dialog tell Eudora to watch out for that specific subject, sender, or recipient, and to transfer that message to a different mailbox or delete it altogether. You can create a more-complex filter by going to Window > Filters. Click New, define the criteria for your new filter (such as if the body of the email contains the words "barnyard animals"—unless, of course, you're a farmer), and tell Eudora where it can stick that email, if you know what we mean and we think you do.

In Eudora 5.1, a feature known as MoodWatch alerts users when an email contains potentially offensive terminology.



We're being censored! (top) But we can disable Eudora's Mood Watch feature if we like being offensive, or offended—which sometimes we do (bottom).

MYTH Buying and installing an anti-virus software program will keep your Mac safe.

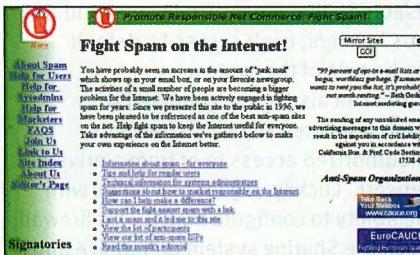
In addition to setting up your email programs correctly, there are several other ways to minimize spam.

Don't Respond

If have the urge to hit Reply and ask a spammer to kindly remove you from his or her email list, thank you and good day, *you must resist*. This just alerts spammers that you exist. They then add your address to a "respond" list, and sell it to more spam distribution groups.

Complain

If you're tired of spam, raise hell. One anti-spam site—<http://spam.abuse.net>—provides Mac-based anti-spam resources. Report unwanted spam at SpamCop.net, <http://spamcop.net>. Track down the perpetrator at [Spam IDentifier](http://SpamIDentifier.com), www.lpsci.com/spamid. Learn how to hide your email address from spammers at [Sneakemail](http://sneakemail.com), <http://sneakemail.com>.



With the goal of promoting responsible Internet commerce, [Spam.abuse.net](http://spam.abuse.net) offers background on spam and tips on getting rid of unwanted emails.



SpamCop.net makes it easy to report spam.

Bring in the Feds

Believe it or not, the Federal Trade Commission actually wants you to send them your spam. Send it to them at uce@ftc.gov—"uce," by the way, is guv'mint speak for "unsolicited commercial email." Spam.

Kill It Before It Comes In

There are a few ways to put the kibosh on spam even before it reaches your in-box. For instance, you can try an anti-spam filter like [Spamfire Pro](http://Spamfire.com) (\$29 electronic download,

www.matterform.com), which works with any POP3 email account. Emailias (\$19.95 per year, www.emailias.com) integrates a button in your Web browser. Every time a site asks for your email address, you can ask Emailias to generate a unique address so you don't need to give up your real address. Just enter the one Emailias creates for you, and the service will take care of redirecting all of your communiqués from that site to your in-box. Spamfree.net (\$5



The Emailias service allows you to generate a unique per-use address to plug in to Web sites that make you submit your email address.

per month, www.spamfree.net) is a service that will filter all of your email messages for you. Just have all of your messages forwarded to [Spamfree](http://Spamfree.net), and it will take care of the dirty work (or you can have it remotely retrieve your messages—and filter 'em—every 15 minutes).

THE PROBLEM: HACKERS & THIEVES

While first praised as engineering whiz kids who could push computer programs beyond their limits, some hackers have morphed into thieves who have turned harmless meddling into big, scary business.

Security is a bigger deal in Mac OS X than in OS 9. If you turn on a service in the Sharing pane—whether it's file sharing, FTP access, or remote login—and connect to the Internet, all of those services are also available over the Internet, even if you only have a modem connection. If you have a LAN-based or broadband connection with a fixed IP address (an IP address that stays the same for days at a time) there's

FACT Unless you regularly update your software with new virus definitions, even top-of-the-line software is useless.

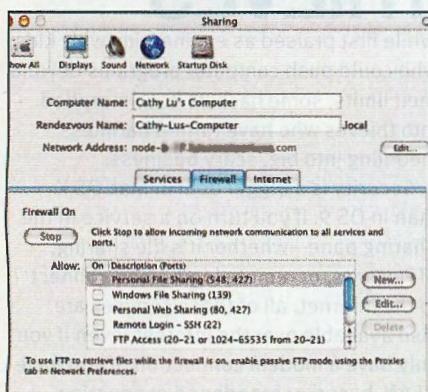
considerably more risk. If you don't protect your Mac, any dastardly baddies could attempt to sign onto your Mac via FTP or SSH or whatever you've enabled and try their bag-of-tricks on your system. In fact, they can walk right into your Public folders using file sharing's guest access without breaking a sweat and leave goodies in the Drop Boxes. One false move (or misconfigured server or user account with a weak password) and you could be allowing hackers to root around on your hard disk or masquerade as you using your IP address. You can read more about Mac security in the book *Internet Security for Your Macintosh* (Peachpit Press, 2001)—you can find a chapter from the book on the Disc.

Other thieves circumvent individual users altogether, hacking into databases of online stores to steal credit card and identify information. Last year more than 700,000 consumers had credit card and identify information stolen. In the last two years, hackers and thieves banked more than \$1 billion in unauthorized credit card purchases from Visa and MasterCard. And you wonder why you're still in debt.

THE FIX:

You know how a burglar is more likely to break into an open car than a locked one? Same idea with your Mac—if you make it harder to access your machine, hackers might not try.

One option is a NAT router with a built-in firewall. NAT routers sit between your Mac and the Internet and essentially keep secret the identity of the machines behind the router. Product options include the Linksys EtherFast Cable/DSL Router with 4-Port Switch (\$60 ESP, www.linksys.com), the Belkin 4-Port Cable/DSL Gateway Router (\$112, www.belkin.com), and the



Use the firewall available in Jaguar to protect yourself from unsavory intruders.

MYTH If you select your favorite Star Trek character as your password for every online account, your information will be safe.

HACKING HARRY

His profile: Like most hackers, Harry was on the prowl for one of two things: money or information.

His crime: A hacker who learned his trade by sharing stories and tips with other hackers via newsgroups and monthly group meetings (sad, but true), Harry stole nearly \$5,000 from a handful of Internet banking account holders by hacking into their accounts.

His talent: Harry, who had done his research, knew one of the quickest ways to gather info was to break into a business database, access an individual PC, and explore the browser cache after an Internet banking session to pick up account information and passwords.

Proxim Netline Broadband Gateway (\$130, www.proxim.com). If you want to go the wireless route, Apple's AirPort base station (\$299, www.apple.com) supports NAT and can handle a mixed wired/wireless setup.

You can also take action on the software side. Mac OS X ships with what Apple calls conservative security default settings. While users can set up file sharing and Web sharing to give outsiders access to a computer, the machine ships with all of these features disabled. Also, Apple ships Mac OS X with the root account disabled—that means that users, and thus hackers, can't access by default the bowels of the system.

You can also protect yourself with a software firewall, which prevents unauthorized access to or from a private network. Luckily, Jaguar now ships with the ability to configure Mac OS X's firewall. Open the Sharing system preference and click the Firewall tab—click Start and select any services (such as file sharing, remote login, or FTP access) you would like to allow.

For those of you who aren't running Jaguar or who need more protection than what Jaguar offers, check out the following software:

Symantec Norton Personal Firewall

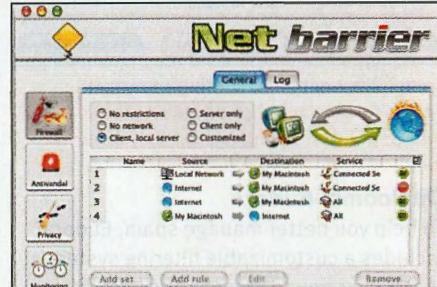
(\$69.95, www.symantec.com)

Norton Personal Firewall system prevents unauthorized access, keeps a log of all access attempts (successful or failed), and can even make your Mac invisible on the Internet. (This also comes as part of Symantec Norton Internet Security 2.0, \$99.95, which includes Norton AntiVirus.)

Intego NetBarrier

(\$59.95, www.intego.com)

NetBarrier offers a personal firewall to protect and monitor incoming and outgoing data; an anti-vandal feature that blocks break-in attempts; an Internet filter that analyzes data as it leaves your Mac to prevent unauthorized export of credit-



Use NetBarrier to bar unwanted visitors from your Mac.

card data, passwords, and so on; and an Internet privacy feature that blocks ad banners and spam.

Sustainable Softworks IPNetSentry

(\$35, www.sustworks.com)

IPNetSentry watches for suspicious activity and bans potential intruders when triggered. Users can help IPNetSentry define what is suspicious activity. At press time the company was working on a Mac OS X version.

Open Door Networks Who's There?

(\$49 for Mac OS X version, www.opendoor.com)

This software works with certain firewall software (like Norton Personal Firewall and Sustainable Softworks IPNetSentry) to analyze and advise you about the risk level of unwelcome attacks. It'll even locate the jerk who tried to break into your Mac and draft an email to his or her network admin.

TIP To choose hard-to-break passwords, follow these guidelines:

1. Mix upper and lower case.
2. Include punctuation marks, numbers, and/or symbols in the middle of the password (not at the end).
3. Choose an obscure phrase and then use the first letter of each word in that phrase. Or choose two unrelated words and mangle them in such a way that you would never find them in a dictionary.
4. Choose passwords that are at least seven characters long.

FACT Who needs a supercomputer to break down billions of alphanumeric combinations when people regularly pick

Who's There? Firewall Advisor for Mac					
Access History Detail		Summary by Service		Summary	
Date and Time	Action	Service	Port	Risk	Email
9/09/01 10:43:59 AM	Deny	Web Sharing	80	Medium	
9/08/01 10:56:59 PM	Deny	Unix Trojan Horse	1234	Medium	
9/08/01 10:56:59 PM	Deny	Unix Trojan Horse	1234	Medium	
9/08/01 6:01:15 PM	Deny	File Transfer Protocol (F...	21	Medium	
9/08/01 5:35:01 PM	Allow	Web Sharing	80	Medium	
9/08/01 5:30:25 PM	Deny	File Transfer Protocol (F...	21	Medium	

Who's There? helps you figure out what's going on with all of those access attempts.

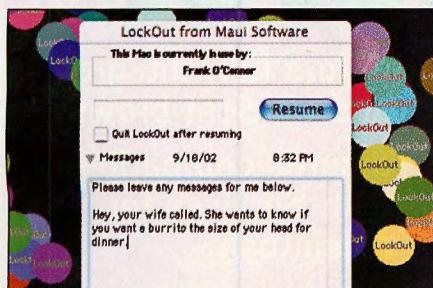
Marcadesign Ciboulette

(\$10, <http://software.marcadesign.com>) This shareware will encrypt personal files that sit on your hard drive or ones you send via the Internet.

Maui Software Lock Out X

(\$15, www.mauisoftware.com)

More robust than Apple's Keychain, this shareware security application helps keep snooping coworkers and family members from using your Mac when you step away from your desk—but it's nice enough to let them leave you messages on your screen while you're away.



Lockout allows others to leave you messages while you're getting your lunchtime Happy Meal.

THE PROBLEM: VIRUS SPREADERS

Like a real, living virus, most of the 60,000 computer viruses that exist today are designed simply to replicate themselves and create a little havoc along the way.

But aren't Macs more difficult to infect than PCs, you ask? Sort of, although much of that has to do with the fact that the twisted morons who write viruses are going after the biggest audience—Windows users. But now that the Mac OS is sitting on top of Unix, virus creators could take more of an

VIRUS-SPREADER VINNY

His profile: A hacker, spammer, and thief all rolled into one, Vinny hacked into an online commerce site, stole email addresses and spammed unsuspecting users with an email that contained a virus.

His crime: Knowing that many users were becoming savvier when it came to virus-protection software, Vinny created a new virus that affected JPEG files.

His talent: Because he knew what kind of virus-protection software was out there, Vinny wrote a virus code that existing software couldn't detect. As a result, when users opened the JPEG file, their computers got infected.

interest in the Mac. They may know Unix, and their audience has grown. It's kinda like going from an LA Clippers to an LA Lakers game (not that Mac users are losers).

According to Henry Schaup, Norton AntiVirus program manager, the most common viral threat in Mac OS X is still the most common threat in the Classic operating system: macro viruses. This kind of virus is specifically embedded into Word or Excel documents that use macros, a program or code segment written in the internal macro language of an application. As soon as you open a macro-virus-infected Word document, your Mac gets infected. "That's the main thing we're looking out for in Mac OS X," Schaup said. "There are a lot more macro viruses out there than there were even a year ago."

Another potential problem for Mac users to watch out for are viruses that take advantage of AppleScript. In 2001 an AppleScript-specific virus, known as the MacSimpsons virus, made the rounds. The virus opened Microsoft Outlook Express or Entourage, scanned through the user's address book, and sent a copy of itself to everyone on the list.

THE FIX:

While Macs may not be as appealing a target as PCs, the last thing you want is to actually catch a virus. Virus-scanner programs are fairly cheap, easy to use,

and were designed with the age-old cliché "better safe than sorry" in mind. Plus, the problem will only get worse. According to MessageLabs, a service provider specializing in email security (www.message-labs.com), currently one in 300 emails contains a virus. By 2007, that number is expected to be one

VirusBarrier checks files automatically to ensure viruses are not hiding within.



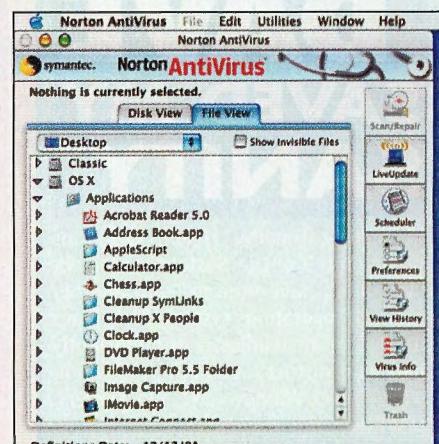
in 10 emails. The number rises to one in two by 2013.

At Mac Expo in July, Apple introduced its .Mac Internet service (at a steep price of \$99.95 a year), which includes new Virex virus protection software from McAfee Security. Here are some other options:

Symantec Norton AntiVirus

(\$69.95, www.symantec.com)

Norton AntiVirus automatically scans and protects any file being written to a disk or modified. It also includes automatic virus definition updates.



In Mac OS X, Norton AntiVirus scans files without holding you up. Thanks, preemptive multitasking!

Intego VirusBarrier

(\$49.95, www.intego.com)

VirusBarrier checks for and repairs all infected files.

McAfee Security Virex

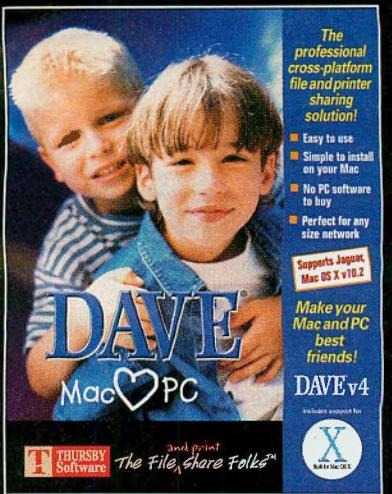
(\$33.25, www.mcafeeb2b.com/default.asp)

Screw .Mac! We mean, you might be interested in getting Virex as a standalone product. It protects from virus infection by scanning every file you download from any source.

Though this article clearly suggests she was a nasty hacker in a previous life, Susan Ashworth is now focused on the somewhat less-lucrative career of freelance technology journalism.

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NOW, MORE FEATURES FOR THE SERIOUS MAC USER!



"DAVE SAVED MY SANITY"

IT Analyst Timothy Hixon, Los Rios Community College System explained, "We didn't have time to learn another network operating system. The Macs needed to fit seamlessly and efficiently into our district's computer network, which used Windows NT file servers. DAVE was the answer."

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- Shares files and printers between Macs and PCs
- Supports Microsoft standard NTFS file format
- Provides three security options
- Offers fully integrated and efficient browsing
- Insures compatibility with Services for Macintosh
- Provides NT Domain Login



Macworld
1½

www.thursby.com

"DAVE not only supports Macintosh computers still running OS 9, it enhances Jaguar's SMB capabilities for the advanced and professional user"

SHARE FILES AND PRINTERS - Mac/PC, PC/Mac

"DAVE is, without any doubt, the best solution for integrating your Mac into a PC environment."

-Univers Macworld



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Software

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The Truth.

Learn it. Spread it. Then help your friends and family leave behind their PCs forever.

We've all been there at that moment when a business associate mentions his PC is down again, that he can't get data for you now, or that a virus is running rampant through his hard drive. He's not terribly upset; he's gotten used to it. But your heart breaks because you know there's a better way.

Then there's that time when your neighbor mentions she's in the market for a computer. You want to (forgive the '60s phraseology) turn her on to the mind-bending, life-changing understanding of how much more amazingly cool and easy the Mac is. But you're not sure where to start.

So what do you say when your business associate asks if he can run Access on the Mac? How do you explain it when your neighbor questions why she should switch to the Mac when Pentium 4s are running at twice the clock speed of PowerPC G4s?

You tell them the truth.

We've put together this guide to arm you with the info you need to convince your PC-using (note we didn't say *PC-loving*—those folks are lost causes, but fortunately there aren't many of them) coworker, neighbor, friend, or foe to switch to the better platform. We also set you up with all the information you need to complete the move from a PC to a Mac. And for those of you who only surround yourselves with Mac users? Read on for a little insight into why the computer in your life is the best computer on the planet.

by Deborah Shadovitz

Step 1: Converting the Masses

When you're talking to PC users, it's important to remember one thing: Most of them have been fed misinformation or have been trained by their corporate IT personnel to believe that Windows is the *only* viable operating system for real work. So how do you educate people who, for years, have been browbeaten into acceptance? You learn the cold, hard facts about why the Mac is better (our apologies to our sister publication *Maximum PC*, but the truth hurts).

Now, we know it's not nice to stereotype people, but forgive us in this case. We do so only to make it easier for you to identify the needs of your friends, coworkers, or clients, and to provide them with the facts that can improve their lives.



FileMaker Pro 6 trial,
OmniGraffle 2.0.8 demo,
FastTrack Schedule 8.0.1 trial,
DayLife Personal Edition 1.0.5
trial, Chartsmith 1.0.1 demo,
and AccountEdge (OS X) 2 trial

The Truth.

Target: Mr. or Ms. Mod

Trademark characteristics: These guys are constantly opening up their boxes to get the latest, greatest 2-percent speed increase. They want every gadget—even though they may have no practical use for them.

What they'll say: "Macs are no fun. You can't upgrade them."

How you'll convince them: First off, know what you're up against. When PC users say "upgrade," they usually mean an Ethernet card, sound card, USB, or FireWire. Or a *better* sound card, video card, and so on. Kindly mention that Macs *come with* that stuff—and always with top-quality products, so moving up isn't necessary.

Remind them how hard it is to upgrade a PC. Scott Webster, an IT guy at a major Los Angeles film and television studio that uses both Macs and PCs, says "Hell yeah, adding cards to a PC is a pain. Certain brands of cards seem to like being only in a certain slot. So you've gotta delve deep into all the undocumented stuff and figure it all out—and that doesn't even include driver issues."

Ask your targets what it takes to perform their upgrades: steps, issues, problems getting Windows to recognize the hardware, and software/hardware incompatibility. (*Warning: Clear your calendar—this may take a while.*) Then tell your targets you can pretty much pop any PCI card into any Power Mac tower, and it's good to go. Or you can usually plug in any USB or FireWire device and the Mac recognizes it (with rare exceptions like SmartMedia card readers).

If they are *still* stuck on the idea of upgrading a machine, show them the model-by-model processor upgrade listings on the Sonnet Technologies (www.sonnettech.com) or Other World Computing (www.otherworldcomputing.com) Web sites. For example, our old 7600 runs flawlessly as a G3, thanks to a CPU upgrade card, and is replete with USB and FireWire as well. How's that for some upgrade action?

Wanna have fun? Mention dual monitors. Your targets' faces

PARALLEL APPS

One of the biggest worries for PC users who want to make a switch is that they won't have the tools they need to perform their tasks. We've listed some of the most common PC apps and their Mac alternates. For more info, go to Apple's Made4Mac site (www.apple.com/guide/us) and choose Business And Enterprise from the Software page.

If they use:	Suggest:
Microsoft Access	FileMaker Pro (\$299, www.filemaker.com)
Microsoft Publisher	Apple AppleWorks (\$79 or free with new Mac, www.apple.com/appleworks)
Microsoft Visio	Omni Group OmniGraffle 2 (\$60, www.omnigroup.com)
	Blacksmith Chartsmith (\$129, www.blacksmith.com)
Microsoft Project	AEC Software FastTrack Schedule (\$299, www.aecsoft.com)
Microsoft FrontPage	Adobe GoLive (\$399, www.adobe.com)
Nullsoft Winamp	Apple iTunes and QuickTime (free, www.apple.com)
Best Software Act	Power On Software Now Up-to-Date & Contact (\$130 for CD version, www.poweronsoftware.com)
	Marketcircle DayLite Personal Edition (\$95, www.marketcircle.com)

will probably crinkle in question—or in painful memory of attempts they have made. Webster recalls having problems adding a second ATI card in one of his Dell's docking stations even though the internal card was also from ATI. "Same brand! And we still had conflicts." Mention (don't brag) that all we do is pop a second video card into a PCI slot, slap the case closed, and plug in the monitor. If you really want to cause some pain, remind your targets that all the current Power Mac towers have *built-in* dual-monitor support!

If your targets argue that Macs are more expensive to upgrade, ask them how much their upgrades really cost after factoring in the downtime, calls to tech support, and hiring of a tech to do the installation. Then tell them that with a Mac, they could have opened up the machine themselves, popped in the card, closed it, and gone to the beach for the rest of the day.

Finally, they may protest that you can't custom-build your own Mac. Actually, you can. If so-inclined to play Dr. Frankenmac, they can stock up on used parts from Shreve Systems (www.shrevsystems.com) or MacResQ (www.macresq.com) and go at it.

Target: Home/SoHo Users

Trademark characteristics: They want the easiest, cheapest, no-nonsense system out there. Unfortunately, they're usually misinformed.

What they'll say: "With a PC, I have friends to call for help."

How you'll convince them: First off, let them know they simply won't need as much help with a Mac. Recommend AppleCare, which provides extended support for three years. Tell them about the Apple Consultant Network (ACN)—Apple lists certified or registered specialists on its Web site. Also mention the Apple-Store Mac geniuses, who are prepared to answer their questions. Tell them about the amazing user-group community and help them find a local group at www.apple.com/usergroups.

What they'll say: "There are too many issues with peripherals. I'll have to buy new ones if I buy a Mac, and there aren't as many for that platform."

How you'll convince them: In terms of peripherals, age is key. Although an old device may be incompatible with a new Mac, it likely would also be incompatible with a new PC. But some of the hardware they already have may work cross-platform. For example, they may be using a printer via the parallel connector, but that printer may also have an Ethernet or USB connector that should work with a Mac.

As for the question of whether there are fewer Mac peripherals, a few years ago this concern was somewhat valid. But now that Apple has standardized on USB, FireWire, Ethernet, and IDE hard drives, most peripherals are cross-platform. Mac OS X has built-in drivers for most of these items, so they usually work without driver installation or restarts.

What they'll say: "PCs are faster than Macs."

How you'll convince them: First explain that megahertz does not equal performance—it's just one of many contributing

factors. The PowerPC's unique architecture does more with less (for a detailed explanation of how, see section "PowerPC vs. Pentium," p30). Plus, all of the current Power Macs ship with dual processors, which allows applications to benefit from both processors simultaneously.

What they'll say: "Macs are more expensive than PCs."

How you'll convince them: Here's where a little math will go a long way. Price out the components, and you'll find that Macs are actually a similar—if not better—value.

System	Apple Dual-867MHz G4	\$1,699	Dell Precision 340	\$1,444
CPU	Two Motorola 867MHz G4s	Included	Intel 1.80GHz Pentium 4	Included
Memory	256MB DDR SDRAM	Included	256MB Rambus RDRAM	Included
HD	60GB	Included	40GB	Included (no 60GB option)
Optical	DVD/CD-RW	Included	DVD/CD-RW	\$179
Graphics	nVidia GeForce4 MX	Included	nVidia Quadro2 EX	Included
Modem	56K V.92 Data/Fax	Included	56K V.90 PCI Data/Fax	\$49
Keyboard	Apple Pro	Included	Quietkey keyboard	Included
Mouse	Apple Pro Optical (optical, not two-button)	Included	Dell mouse (two-button, not optical)	Included
FireWire	Two	Included	Three	\$49
USB	Two	Included; to upgrade to USB 2.0, add \$49	Four USB 2.0	Included
Ethernet	10/100/1000Base-T (Gigabit)	Included	10/100Base-T	Included; to upgrade to Gigabit, add \$99
Sound Card	Built-in	Included	Sound Blaster Live	\$79
Total	Mac	\$1,748	PC	\$1,899

Note: Prices listed here were the prices as of press time and may have changed.

Target: Corporate Suits

Trademark characteristics: Their mantra used to be: "Nobody ever got fired for buying IBM." Like lemmings, corporate suits do things because everyone else is doing it.

What they'll say: "The PC has more business software."

How you'll convince them: Ya know, maybe the PC does have *more* business software, but it doesn't have *better* business software. Ask what software they use. When they name Microsoft Office, Outlook, and Internet Explorer, point out (nicely) that the very same apps exist on Mac. You might even show them features that make the Mac versions better—like IE's Scrapbook for holding files and pages for future reference or Office's formatting palette. If you don't know of an equivalent program on the Mac, check out our "Parallel Apps," p26, for some alternatives.

One more thing: Don't forget to mention all of the cool apps that come with Macs, such as iPhoto, iMovie, iTunes, iChat, and

iCal. Show them how easy it is to build a Web page full of photos or a resume page using a .Mac account. Oh, and especially for anyone with children, show them those cool Apple photo books you can lay out via iPhoto. That gets 'em every time.

Target: Hardcore Gamers

Trademark characteristics: These people stay up all night to play WarCraft III, have at least two game systems, and probably stood in line all night at some point in their lives to buy a game console.

What they'll say: "All the best games are on Windows."

How you'll convince them: The top 5 best-selling games, per the NPD Group (www.npd.com), are The Sims, The Sims: Vacation Expansion Pack, The Sims: Hot Date Expansion Pack, Medal of Honor: Allied Assault, and WarCraft III: Reign of Chaos. All are available for Mac. What's number 6? Harry Potter & The Sorcerer's Stone—and that's available for Mac as well.

In fact, Mac users tend to get all the best PC games—without the crap—thanks to several dedicated developers. Blizzard has always been Mac-friendly, releasing WarCraft III for Mac (OS 9 and OS X) and Windows on one hybrid CD. One of the most highly anticipated games of 2003, Doom III, is expected to come out for Mac and Windows (Id Software founder John Carmack even previewed it at Mac Expo Tokyo 2001). Epic Games' Unreal Tournament 2003 is due for Mac OS X—and this time, Id is developing it in-house instead of having a third party port it.

Then there are the development and publishing houses devoted to porting PC games to the Mac. Companies like Aspyr, MacPlay, MacSoft, and Destineer's Bold label have been doing a good job of closing the gap between the time PC-version and Mac-version games ship.

Target: IT Geeks

Trademark characteristics: PC IT administrators know little about the Mac. Working in a Windows world provides them with job security, which—let's face it—everyone loves.

What they'll say: "Macs don't have TCP/IP," "Macs don't have POP mail," or "Macs can't do Windows file sharing."

How you'll convince them: Simple. Tell them they're dead wrong. Apple integrated MacTCP in System 7 back in 1993 at the same time, if not before, Windows 3.11 or its third-party stacks came around. And Emailer, under Fog City, handled POP email since at least 1995 with System 7.

And networks? For many years, we've had the ability to mount Macs on PC networks via Thursby's Dave (\$149, www.thursby.com) or Miramar Systems' PC MacLAN (for PCs; \$189, www.miramarsys.com). With OS 10.2, you can see a Mac on a Windows network and vice versa without any additional software.

And throw in this lil' fact: In the first half of 2002, 19 of the NPD Group's top-20-selling software titles were either a Windows license or a virus utility. (That's software variety we don't need—or want!) Number 21 is Microsoft Office, and we've got that one on the Mac side as well.

The Truth.

Step 2: Making the Switch

Congrats! Either you've made the switch or you made it happen for your friend, coworker, or son's soccer coach. The hard part is done—now all you have to do is copy files from the PC and put them on a Mac.

If you only want to move folders containing letters, graphics, and other files you've saved, this can be relatively simple. But (and there's always a but, isn't there?) if you have Internet settings, browser bookmarks, email, Quicken files, and more, you're in for a longer ride.

Another factor is price: If you're willing to break out the plastic, there's an easy way to move files. If you want to do it on the cheap, there's a more-difficult, do-it-yourself way.

The Easy Way

To go along with its switchers campaign, Apple commissioned Detto Technologies (experts in PC-to-PC migration) to develop Move2Mac (\$59.95, www.detto.com), a smart, automated way to move your files. Move2Mac can move email from Outlook

MACS IN BUSINESS

Who says you can't run an entire office on a Mac? The following two examples prove that Macs are easily up to the task of office work.

Accounting

The Weston Group, a 60-person West Los Angeles advertising agency, manages its entire bookkeeping system on Macs. The company uses Clients & Profits on the Mac (from \$3,500, www.clientsandprofits.com) to handle all account management, except for payroll. The company decided that Windows-based Paylink by Paychex was still the best payroll solution, so they run Paylink from an iMac in Connectix Virtual PC (\$219 to \$249 depending on Windows OS version, www.connectix.com). "I'd never worked with Mac before I started here," says Controller Ahou Nabifar. "I was under the impression [that using the] Mac is a lot more difficult, but I've found it's easy and I like it. Now I don't want to go back to PC." Smart man.

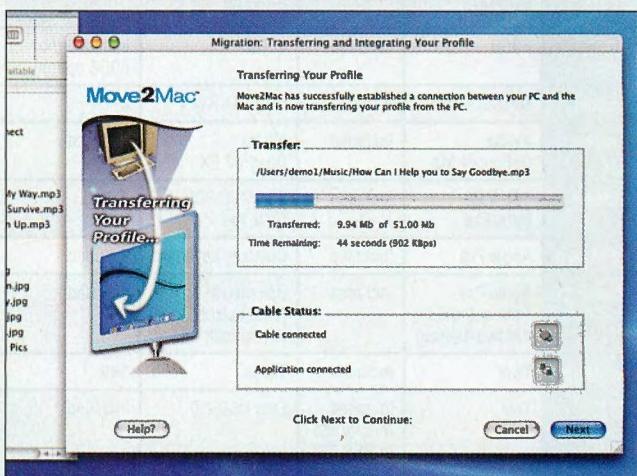
Wondering about a Mac option for payroll? Jeff Kozuch of the Apple Consultants Network recommends CheckMark Software's Payroll (\$249, www.checkmark.com) for small- and medium-sized companies. It can post payroll to most accounting apps or work directly with CheckMark's MultiLedger (\$399 or \$548 if bundled with Payroll).

More options for bookkeeping include Intuit QuickBooks (\$200, www.intuit.com), MYOB's FirstEdge (\$99, www.myob.com) or AccountEdge (\$249), or Nano Software's Accounts (\$35, www.nano.com.au).

Law Firm

Josh Wines has run a 13-attorney L.A. law firm for 14 years on Macs. In that time, he tells us, "our Macs have not let us down."

The firm primarily uses Word and FileMaker Pro, but the other Microsoft Office apps and Adobe Acrobat get good workouts too. FileMaker helps the office keep track of things such as attorney and staff time, and trial documents. For more information about running a law firm on Macs, check out MacAttorney.com.



Move2Mac makes things easy for even the brain-dead. Simply plug in the cable when prompted (top) and watch your files leave the darkness of the PC for the comfort of the Mac (bottom).

Express to Mail (those are the only programs the company would commit to as of press time, although it is planning others); transfer contacts to your Mac OS X Address Book (again, it may support other apps later); move personal files with folder structures intact; and deliver your browser favorites, dial-up Internet settings, TCP/IP settings, and even Microsoft Office user dictionaries—all to the right places.

Move2Mac, which should be out by the time you read this, involves just four easy steps:

Step 1. Install Move2Mac on your PC and launch it.

Step 2. Select the file types and folders to move.

Step 3. Install Move2Mac on your Mac and launch it.

Step 4. When instructed, connect the included cable between your two machines. Move2Mac supports migration from any Windows 98/98SE/ME/2000 PC that has either a USB or parallel port. On the Mac, plug the cable into USB. According to Detto, it takes about 20 minutes to transfer 500MB.

The Hard Way

If you'd rather not invest \$60 in Move2Mac, you can move the whole enchilada yourself. You can do this in one of a gazillion ways, including using Ethernet and Jaguar's built-in Windows file sharing; your .Mac account's iDisk; some sort of external

media such as CD-Rs or Zip disks (although that could be painfully, tortuously slow); or an external hard drive. One thing: Windows-formatted hard drives should appear on your Mac (if it's formatted as a Fat32 drive, not NTFS), but if your hard drive is formatted for the Mac with HFS+, you need MediaFour's MacDrive 5 (\$50 for download, www.mediafour.com) in order to mount the hard drive on the PC.

Once you figure out what media you're going to use, it's time to start sifting through all of your files and manually setting up your Internet access. Just to warn you, this process is tedious—make sure your dinner date knows you might be late.

Step 1. Deal With Dastardly Documents

These are the files you've accumulated over time—your Barry Manilow MP3s, pictures of mom, and love letters to your schmoopie. You can place these files anywhere on your Mac, although Apple does offer some sense of organization to help keep you sane.

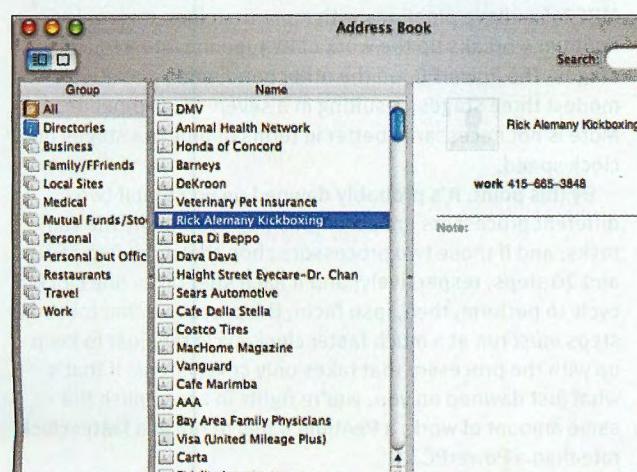
- On your PC, copy the entire contents of the My Documents folder, as well as any other files you've stored elsewhere. On your Mac, put them into your Documents folder, which is in your User folder.

- Depending on which Windows version you're using, you may have folders called My Pictures inside My Documents, or elsewhere. On your Mac, move the contents of My Pictures into Pictures, which is in your User folder. You can then go on to organize them in iPhoto, but that's another story.

Note: If you've viewed your images as Thumbnails in Windows, you'll find two extra generic-info documents with the ending /\$DATA along with each picture. Delete those files from your Mac.

- You may have a folder called My Music on your PC. Take the contents of My Music along with any other music files (although this might be a good time to purge the machine of all those Duran Duran tunes you downloaded in a fit of '80s nostalgia), and drop them onto the iTunes icon in the Dock. iTunes will launch and copy the music files into the appropriate folder and add them to its Library.

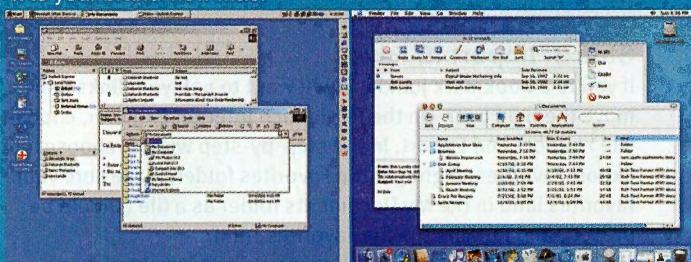
- If your PC has a FileMaker Pro database, copy the entire database's encompassing folder and move it to your Mac along with all the other documents. Chances are, the database folders are in the My Documents folder anyway, so you've already copied them.



Jaguar's Address Book is the holder of all things address-y.

COMMAND CENTER

Are you or your switching friends worried about learning a new OS? To help you out, we've put together this cheat sheet of PC commands and their Mac equivalents. Feel free to cut it out (as long as you don't mind defiling your *MacAddict* issue—though you can always buy another copy of this month's issue) and stick it to your brand-new Mac.



The PC has:	The Mac has:
My Documents folder (on desktop)	Documents folder in your User folder
My Computer (on desktop)	The Desktop (all drives appear there by default) Tip: No need to open My Computer to see CDs or external disks; they'll be on the desktop.
My Network (on desktop)	Network Preference in System Preferences
Recycle Bin (on desktop)	Trash can (in Dock)
Minimize button at top right (sends window to the Start bar)	Yellow Minimize circle at top left (sends miniature version of window to Dock)
Maximize button (opens window full screen)	Green Maximize circle (opens window to the size needed to show its contents, or as large as possible horizontally or vertically)
Close (X) buttons (one closes the window, one closes the application)	Red Close circle (closes the window)
Right-click	Control-click or right-click on two-button mouse
Control-drag to create a copy in the new location	Same, but Option-drag
Start menu to launch apps	Dock
Start menu to shut down or restart	Apple menu
Control-Alt-Delete (to open Task Manager)	Command-Option-Escape (to open Force Quit window)
Right-click and choose Create Shortcut to make a shortcut	Control-click or right-click and choose Make Alias to create an alias
Control Panels	System Preferences
Control-C, etc (keyboard commands for cut, copy, paste, save, and such)	Command/Apple key-C, etc.

Step 2: Emancipate Your Email

The last thing you want to do when you change computers is to try to re-create the gazillions of email addresses and messages you've accumulated on your PC. Since most Windows users opt for Outlook Express as their email client, and many new Mac users will gravitate toward Apple's included Mail program in Mac OS X's Jaguar, that's what we focus on here.

To get your addresses from Outlook Express, go to Tools > Address Book. Select all addresses you want to keep and drag them all to the shared disk, iDisk, or external volume you're using. This creates vCard files. To get your addresses into the Mac's Address Book, select all the vCards and drag them onto your Mac OS X Address Book in the Dock—this makes all of the contact info accessible to you in Mail and iChat.

The Truth.

As for your email messages, unfortunately, using Outlook Express's File > Export Messages command is rather nebulous. You can try it, but neither we nor anyone else we know of on this planet had any luck getting the export to happen. If you try, choose the file export format called *PST*.

Instead, we found success with Apple's method of using a .Mac account as the go-between. Get instructions at www.apple.com/switch/howto/mailbox.html.

Step 3: Import IE Faves

If you're a bookmark junkie, you'll want to nab your links and move them on over. On the PC, launch Internet Explorer, choose File > Import And Export. In the step-by-step wizard, choose Export Favorites, highlight the Favorites folder, make sure your favorites land in the My Documents folder as a file (should be preset), and rename the file Favorites.html.

Copy that file to the Mac. Then move Favorites.html into /Users/yourusername/Library/Preferences/Explorer. Note: This will replace any favorites you already have on your Mac.



Deep within your Users folder—in a galaxy far, far away—sit your Internet Explorer Favorites.

Step 4: Transfer Other Custom Data

Many of you probably have a number of other files and settings you'll want to move. Here's a look at some of the more common issues.

Palm Do a final hot-sync between your PC and your Palm. Then set up your Palm software of choice and hot-sync your Palm to the Mac. Done.

Quicken Due to feature differences between Windows and Mac versions, you cannot simply copy your Quicken files to the Mac, nor can you transfer all of your Quicken data. You can, however, export your main Quicken data—Accounts and Transactions (complete with Categories, Classes, and Securities within)—then import that info on the Mac. Intuit provides instructions on how to do this at www.intuit.com/support/quicken/2003/mac/2159.html.

Access Databases Since there is no Mac version of Access, you can either run Access in Virtual PC or build a new database and then export the data from Access and import it into your new database on the Mac.

If you want to run Access in Virtual PC: While on the PC, copy the folder that contains the database. Then run Virtual PC on the Mac, install Access, and copy your databases into Windows in Virtual PC.

A third option is to convert your databases to Java using Access Converter by Diamond Edge (\$520 to \$695 depending on version, www.diamondedge.com). You'll do the conversion first, then copy the results from the PC to the Mac. See the software documentation for details.

PowerPC vs. Pentium

Pentium processors run at faster clock speeds than PowerPCs. Here's why that shouldn't bother you.

As marketing mantras go, "Megahertz doesn't matter" has a bit of a defensive ring to it. We cynics fret, "If megahertz really, truly doesn't matter, why does Apple make such a big deal about it? Why does Intel make such a big deal about it? Why do our PC friends so enjoy rubbing their 2.8GHz Pentium 4 machines in our faces?"

We're here to tell you that megahertz doesn't matter—except when it does.

Confused? Let us explain.

Although the following explanation is a drastic oversimplification, basically a microprocessor does four things. First, it *fetches* an instruction from main memory or from its own cache. Second, it *decodes* that instruction into a form that its own innards can understand. Third, it *executes* that instruction. Fourth and finally, it *writes* the results of that execution back to memory. In a simple, straightforward world, each of these four steps would take exactly one clock cycle to work its mojo before the next step took place.

The problem is that the world of modern microprocessors is neither simple nor straightforward.

This basic four-stage *pipeline* may be the foundation of every modern microprocessor, but a microprocessor today with a simple four-stage pipeline is a rare bird, indeed. At today's high clock rates, most processors simply can't get enough work done in a single clock cycle to complete a pipeline stage, so designers add stages. For example, the execute stage (which is nearly always divided up into parallel, specialized *execution units*—but that's a story for another day) is usually enhanced with added stages.

As a result, the processor that powers most high-end PCs—Intel's Pentium 4 (sorry, AMD)—and the processor that powers most high-end Macs—Motorola's PowerPC MPC745x—have pipelines with more than four stages. The Pentium 4 breaks up the work of its pipeline into a full 20 stages. The PowerPC, on the other hand, adds a relatively modest three stages, resulting in a seven-stage pipeline. More is not necessarily better in terms of pipeline stages or clock speed.

By this point, it's probably dawned on you that if two different processors are accomplishing essentially the same tasks; and if those two processors chop that work into seven and 20 steps, respectively; and if each step takes one clock cycle to perform, then, ipso facto, the processor that takes 20 steps *must* run at a much faster clock-cycle rate just to keep up with the processor that takes only seven steps. If that's what just dawned on you, you're right: To accomplish the same amount of work, a Pentium 4 *has to* run at a faster clock rate than a PowerPC.

Well...more or less. Microprocessors are fiendishly complex little buggers, designed by some of the finest minds that ever

punched the Enter button on an HP 49g graphing calculator. There's a lot more to processor performance than either clock rate or pipeline length (or "depth," as it is usually called). The MPC745x, for example, comes equipped with what Apple's marketing department calls a Velocity Engine and its engineers call AltiVec. Simply put, this execution unit can apply the same instruction to a whole load of data in one clock cycle, using a technique called SIMD (single instruction, multiple data). It's killer for processor-intensive tasks such as image and media processing.

The Pentium 4 has some tricks up its sleeve, as well. For example, it speeds fetching, decoding, and scheduling (the smart part of assigning instructions to the proper execution

unit in the proper order) by using what's called a *trace cache*. In a nutshell, the P4's trace cache helps reduce the bane of deep-pipeline processors: the dreaded performance-sapping *pipeline bubble* (see "Pizzas and Pipelines," below).

So when does megahertz matter? The answer to this question is, to put it mildly, a bit anticlimactic. Megahertz matters when comparing processors with similar architectures. When comparing dissimilar processors, clock-rate comparisons are deep, steaming heaps of marketing muck.

That said, remember that this discussion is waaaaay simplified. If you want to dig into the subject further, check out the excellent work by the folks at Ars Technica (www.arsTechnica.com).—Rik Myslewski

Pizzas and Pipelines

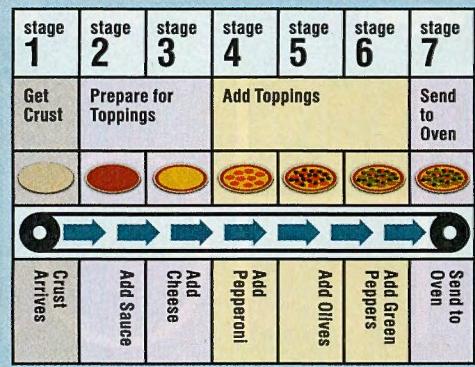
We explain pipelines in a language everyone can understand: pizza.

At the PowerPC Pizza Palace, the conveyor belt moves at a leisurely 1 billion stages per second. At this relaxed rate, there's plenty of time for each chef at each stage to properly prepare and place his or her ingredient on the crust, and for the pie to move to the next station. At Papa Pentium's Pizza Pies, the conveyor moves more than twice as fast as the conveyor at the PowerPC Pizza Palace—Papa Pentium's harried crew can each do only part of the ingredient-distributing work at each stage, and some stages are devoted just to moving the pie from one stage to another.

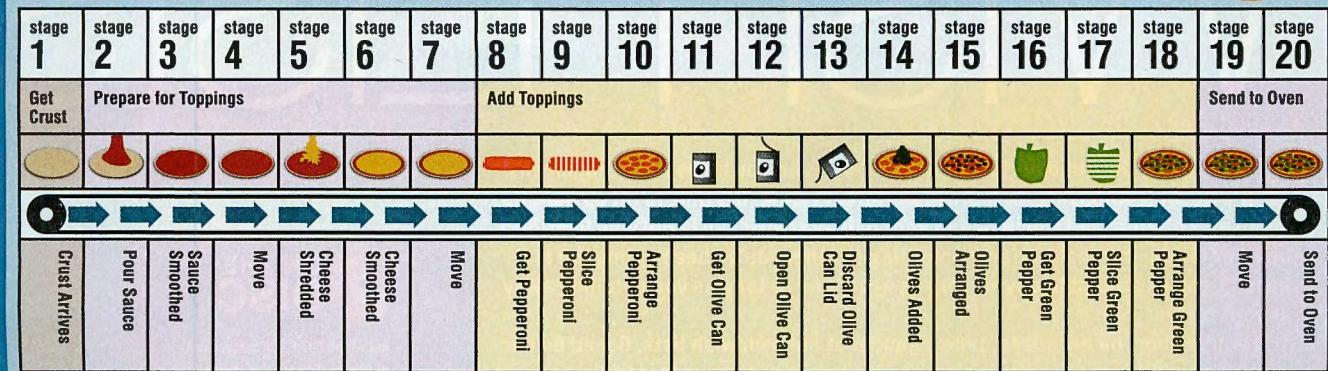
When all is humming along smoothly, both parlors efficiently produce deliciously greasy artery cloggers. There's a problem, however, when the chef at the first stage either doesn't know whether the crust should be white or whole wheat, or makes an incorrect decision and puts the wrong crust on the conveyor belt. At the PowerPC Pizza Palace, a missing or wrong crust will only waste seven clock cycles...uh, pizza-building operations. At Papa Pentium's, on the other hand, a mistake means a full 20 idle pizza-making cycles, or even more when they can't rectify the mistake in a single cycle—and God forbid that Papa P. might need to send a waiter out into main memory...uh, the dining room...to ask what the customer really wants.

Substitute a microprocessor's *pipeline bubble* for an empty pizza-machine conveyor-belt slot, and you'll understand why shorter pipelines are less affected by performance-robbing bubbles.

POWERPC PIZZA PALACE



PAPA PENTIUM'S PIZZA PIES



Deb Shadowitz wonders if she counts as a switcher because she made the jump from DOS to Mac System 6 back before anyone was duped by Windows.



Holiday Wish Lists

Yes indeedy, the holidays are upon us again—and you know what that means: It's the time for giving, or more important, getting. It's time to hit up parents, spouses, children, and friends—and your rich, eccentric Uncle Bill who lives on a boat in Florida—for that perfect something or other you've been ogling but just haven't gotten around to buying (or can never buy as long as you're toiling away at your current job).

If you're short on gift ideas, take a gander at our own wish lists. Based on our own personalities, each of the editors and art staffers here at *MacAddict* came up with a list of stuff we hope to unwrap this December. Our staff is as diverse as the population of the state of New Jersey (although we don't have any mall chicks), so you should find a gift that suits your price range and your giftee's personality. And hey, Mom, if you're reading this...we love you very, very much.

The *MacAddict* staff gets greedy and picks the gifts they want to find in their stockings this holiday season.



Auto-Tune RTAS 3.1 demo, Click 'N Design 3D trial, Desktaastic 2.0, Giants: Citizen Kabuto demo, MacReporter 1.1.2, Slick Sampler, and WingNuts 1.2.2 demo

RIK MYSLEWSKI RESIDENT GEEK

My basement is full of boxes packed with nothing but cables. Digging into them is an exercise in historical geekology. In the top layers you'll find FireWire and USB cables, along with a few Ethernet patch cables. A bit further down is a tangle of SCSI, ADB, video, RJ-11, serial, and AppleTalk cables. Next come Centronics, GPIB, and RS-232 cables from the days when I built my first CP/M computer with parts from Godbout and Cromenco. In short, I've been a geek for a long, long time. I love taking things apart. The gifts I seek this holiday allow me to indulge both my inner nerd and my love for my TiBook, with which I have a deep, personal relationship.



APC Back-UPS ES 500 Uninterruptible Power Supply

\$59.99, www.apc.com

Although my battery-powered TiBook doesn't need it, I'd love to have an uninterruptible power supply that will power my home broadband router long enough to search the Web for the reason my power just went out.

Apple Pro Keyboard (White Keys)

\$59, www.apple.com

With my TiBook perched on my Griffin iCurve (see below), a new Apple Pro Keyboard will be an ergonomic delight—and its black letters on white keys are much easier for my myopic headlights to read.

Griffin Technology iCurve PowerBook Stand

\$39.99, www.griffintechnology.com

Not only is this Lucite wonder a beauty to behold, it also elevates my TiBook to a height where I don't have to hunch over it to read the display.

Elme One Touch Band/4 Antistatic Wrist Strap with 1502 Wire Banana/15-4 Cable

\$10 (\$5 each), www.esd.tv

It takes a finely tuned fashion sense to recognize that this elegant antistatic wrist strap is the perfect accessory to wear while rooting around inside an old Mac.



When your power goes out, an extra 5 minutes of juice can be a lifesaver.



Rest your beloved TiBook upon this crystal-clear, bulletproof, Lucite throne.

Kingston KTA-PBG4/512 512MB SODIMM RAM Card

\$272, www.kingston.com

My TiBook deserves a happy holiday too. With an upgrade to 640MB of RAM, it'll run Jaguar much more effectively.

Matco Tools Ratcheting Bit Drive Screwdriver with Three Bit Magazines

\$90.75, www.matcotools.com

Any self-respecting computing-equipment disassembler deserves a fine screwdriver set.

Wacom Graphire2 Graphics Tablet

\$99.95, www.wacom.com

Now that Jaguar has Inkwell handwriting technology, I'm dying to find out if it'll recognize my idiosyncratic scribble-scrabble, or whether it'll create Newton-like nonsense. (Futon-lies nonstop?)



RadioShack Silicone-Base Heat Sink Compound

\$1.99, www.radioshack.com

When you love to take your Mac apart, you'd better have a tube of this stuff on hand to ensure that your heat sink will work if and when you get around to putting it back together again.

This lil' tube only costs \$1.99, but it can help protect your \$2,000 iMac.

NIKO COUCOUVANIS MOBILE DUDE

There's a reason my main Mac is a mobile one—I'm a busy man, always on the go, with things to see and people to do. I use my PowerBook for everything—work, fun, and occasionally posing at Starbucks. Of course, part of being a mobile man of means is traveling light—as I could do with my iPod and that tiny camera I've been eyeing. So what else could I possibly want? Power, baby—it's all about power: sucking it from a car or airplane seat, adapting to those wacky foreign-country plugs, or even pinching it directly from the sun. And a pony. I still want a pony.



PowerQwest Sun Catcher Professional

\$269.95 ESP, www.powerqwest.com

This portable solar-power rig would let me go anywhere on the planet and not worry about plugging in my PowerBook.

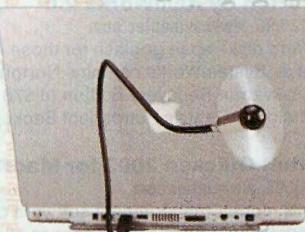


These six little nubs will power me around the world.

Apple World Travel Adapter Kit

\$39, www.apple.com

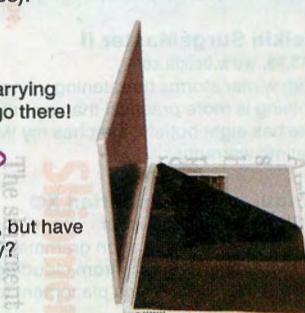
This kit will help if I get stuck where the sun doesn't shine—I mean, if I want to use my TiBook's white power brickette in North America, Japan, China, the United Kingdom, Europe, Korea, Australia, or Hong Kong.



MadsonLine Auto/Air Adapter

\$78, www.madsonline.com

When your battery lasts longer than your flight (or drive), you're not really traveling. This gadget includes surge and short protection, and a little green LED indicates power.



Kensington FlyFan USB Fan

\$24.99, www.kensington.com

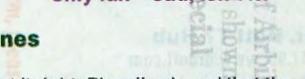
Slide this into my stocking, and I'll stay cool all year.

My biggest fan. OK, my only fan—sad, isn't it?

Toshiba PDR-T10 Camera

\$299, www.toshiba.com

It may not be the best 2-megapixel camera in town, but its sneaky size and optional chameleonic faceplates make this camera perfect for a suave mobile guy like moi (see Reviews, p52).



Apple iPod Remote and Earphones

\$39, www.apple.com

I still love my 5GB iPod, and I wanna treat it right. Plus, I've heard that the new buds rock (see Reviews, Oct/02, p53).



TIPaint Touch-Up Kit

\$19.95, www.tipaint.com

Bones heal and chicks dig scars, but carrying around a scratched-up TiBook? Don't go there!



OWC Laptop Screen Protector

\$14.95 iBook, \$17.95 PowerBook;

www.otherworldcomputing.com

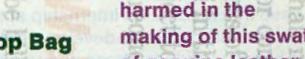
Yeah, it's just a low-tech strip of leather, but have you looked at your 'Book's screen lately?



Apple .Mac Membership

\$99.95 per year, www.mac.com

Webmail and online storage are musts for road warriors, vacationing or not.



Crumpler Very-Busy-Man Laptop Bag

\$125, www.crumplerusa.com

A busy man on the go needs a big purse—er, laptop bag—to keep all his booty in tow. This one even has a special portal to accommodate the cords for my earbuds and remote control.

United States Shipping
1. Complete applicable white sections of the U.S. Airbill.

Liability of Airborne Express is limited to
the amount of the original charge.

JENIFER MORGAN MS. PRACTICAL*

The truth of the technological matter is that pretty is as pretty does. Just as that petite lobster bisque at Chez Paris would ultimately leave me poor and hungry, splurging on that zillion-dollar, zillion-megapixel cam and then doing dishes to earn cash-for memory cards just isn't practical. There are many advantages to living by the form-follows-function mantra—like you get to use the phrase "It's your basic bird" when describing your equipment. Value is a beautiful thing, and as my list reveals, it doesn't necessarily mean you're stuck with the ugly duckling.



Hewlett-Packard PSC 950

\$349.99, www.hp.com

Break down the price of this multifunction device, and you get four separate machines (printer, scanner, copier, and fax) at less than \$100 each.

Wiebotech DesktopGB 80GB

\$209.95, www.wiebotech.com

Practical in both capacity and price, this 80GB hard drive offers FireWire, USB 1.1, and USB 2.0 interfaces and is user upgradable when I need more room to store my 50-year plan.



Inspired.
DeZired.

Palm Zire

\$99, www.palm.com

A perfect candidate for the "your basic bird" comment, the Zire sports a simple, lightweight design; comes with software, games, and cables; and holds 6,000 addresses and 3,000 appointments. Feel free to throw in the minimalist blue Palm Zire "caselet" (\$19.95) to protect it, come rain, sleet, or sharp object.

Norton SystemWorks 2.0

\$129.95, www.symantec.com

Warm disk-repair goulash for those rainy system-error days: SystemWorks contains Norton's old reliables, plus DiskWarrior Recovery Edition (a \$78 value) and the shorthand version of Dantz's Retrospect Backup (a \$49 value).



Quicken 2003 helps you find the end of the rainbow; advice on outsmarting leprechauns not included.

Intuit Quicken 2003 for Mac

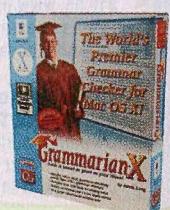
\$49.95, www.intuit.com

This money-management software can organize, track, and update investments and finances all under one software roof, helping me sock away cash to buy those (hopefully few) things that don't make their way down the chimney.

Dr. Bott T7 Hub

\$47.95, www.drbott.com

The ultimate in preparedness, this seven-port powered USB hub is ready for any multitasking that comes its way.



The patronizing cap-and-gown box design is a friend in need, but the Grammarian X software is a friend indeed.

Belkin SurgeMaster II

\$43.99, www.belkin.com

With winter storms threatening us nonequatorial types, nothing is more practical than a surge protector. This one has eight outlets, matches my iMac, and carries a lifetime warranty.

Linguisoft Grammarian X

\$49.95, www.linguisoft.com

This universal-application grammar checker keeps struggles with grammar gremlins from clouding creativity, checking everything from comma placement to euphemisms.

Jian Get Organized

\$19.95, www.jian.com

In case that meditation internship at the monastery doesn't work out, this personal-development software provides tools that help you reduce stress and use time and other resources more effectively.

*References for nice (as opposed to naughty) behavior in 2002 available upon request.

KRIS FONG AUDIO-VIDEO CHICK

Six thousand smackeros. That's the amount my band shelled out to studios to record a polished, five-song demo and shoot a low-budget music video. A new Power Mac 6100, QuickCam ball, and *Macs for Dummies* book later, we decided to play recording engineer and video director ourselves—badly at first, but we got better. The biggest benefit? Our savings put an end to our 50-cent burrito and Top Ramen (aka noodle brick) days. Since then, I've upgraded my audio-video home studio to include a 400MHz G4 with 512MB of RAM, MOTU Digital Performer, Pro Tools, iMovie, and a Sony DV camera—but if Santa, family, friends, or any philanthropic elves are listening, here's some more stuff I'd be thrilled to have.



Digidesign Digi 002

\$2,495, www.digidesign.com

The next best thing to a full TDM system, this FireWire Pro Tools all-in-one recording studio puts an end to mouse-driven recording and includes an awesome \$2,250 software bundle.



Say goodbye to software faders—this baby lets you mix and master audio with real, hands-on soundboard controls.

Stomp Click 'N Design 3D

\$19.95, www.stompin.com

Design labels with photos, art, and 3D graphics, and plaster 'em on CDs and DVDs for that pro look.

Optech Tripod Strap

\$25.50, www.optechusa.com

Because climbing up a rock with a tripod in hand during a video shoot is not fun.



Every singer's best friend, this software can right all wrong notes.

Antares Auto-Tune 3D

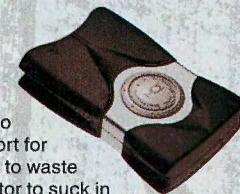
\$359, www.antarestech.com

This magical software fixes wrong notes (singers won't have to hear me say, "Uh, let's do that again").

GeeThree Slick Transitions and Effects Volume 4

\$54.95 (for CD), www.geethree.com

This "Hollywood" collection of special effects plug-ins lets you add bluescreen effects, mattes, motion overlays, and more—all in iMovie.



MCE QuickStream DV

\$499, \$599, or \$799, depending on capacity; www.mctech.com

This drive captures and digitizes video on the fly from a camera's FireWire port for immediate editing, so you won't have to waste time waiting for iMovie or another editor to suck in DV footage.

Saeco Vienna de Luxe

\$629, www.saeco-usa.com

Gotta have the caffeine charge. This puppy grinds and brews coffee, espresso, lattes, and cappuccinos, and then cleans itself—"nuff said.

This nifty device can save hours of video-digitizing time so you can complete your edits and get home before dawn.

NARASU REBBAPRAGADA GOOD-TIME GIRL

Entertain me. That's my motto. Get me games, toys, gadgets, widgets—anything that amuses instantly. By the way, I bore easily, so I'll need lots of different games. I'm also a sucker for eye candy, so make sure my graphics are good. Here's my list. I've checked it twice. Oh, and feel free to throw in a manicure, since my fingers get awfully calloused during those all-night shooter sessions.



MacPlay Giants: Citizen Kabuto

\$19.99, www.macplay.com

Monsters, sea reapers, wry British humor, and a tropical island all add up to a fun game of action and adventure. This game is Mac OS X only.

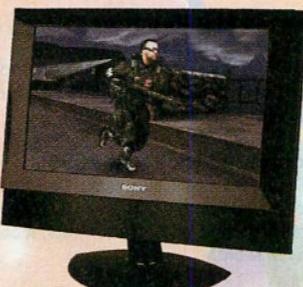


I'll kill you...with humor.

Freeverse Software WingNuts

\$24.95, www.freeverse.com

This hilarious arcade-style air-combat game is light on the system requirements, so you can play it anywhere. Fight the Baron Von Schopwatch's robotic air force and thwart his ransom demands for cash and Beanie Babies.



You can plug almost anything into this black beauty.

Aspyr Return to Castle Wolfenstein

\$49.95, www.aspyr.com

Staying up all night killing Nazi zombie badasses is my idea of fun. Going to bed at dawn with the sounds of gunfire ricocheting around my brain is a little rough, though.

Sony Personal Entertainment Display

\$999, www.sonystyle.com

Officially called the Sony SDM-V72W, this display is a gamer's dream. This 17.1-inch-wide LCD connects to every gadget I've got: TV, DVD, Mac (through VGA), camera, and any other composite, S-Video, or component device. It's got built-in speakers, too.

Aspyr American McGee Alice

\$19.95, www.aspyr.com

A dark and demented Alice fights her way through Wonderland to save critters and her sanity.

nVidia GeForce4 Titanium Graphics Card Kit

\$399, www.nvidia.com

Doom III isn't out yet, but when it is, I'll need this state-of-the-art graphics card. It's got 128MB of DDR SDRAM, plus ADC and DVI ports for dual-monitor satisfaction.



This mouse should help kick some major game butt.

Logitech MX700 Cordless Optical Mouse

\$79.95, www.logitech.com

While I wait for Mac OS X drivers for my game pad, I'll take this rechargeable cordless mouse with a 6-foot range, and 125 location reports per second for fast, fluid mouse action. And it looks really good.

Cambridge SoundWorks MegaWorks 210D 2.1 Speaker System

\$251.99, www.hifi.com

This 270-watt system with 8-inch subwoofer provides some of the best sound you can get out of your Mac. It's got a remote, too.

Neiman Marcus Manicure and Pedicure

\$65, www.neimanmarcus.com

Gaming can be grueling.

CHRIS IMLAY ART GUY

My list is best characterized by the tension between technology and aesthetics. Well, my aesthetic anyway, which is apparently informed by *2001: A Space Odyssey* (my folks took me to see it when I was five). I'm the sort of idiot who's going to buy an iMac just because it's designed well and looks like it belongs on the Orion III spacecraft. It's a curse, really. Anyway, the need for some real computing muscle, a vast screen area, and expensive gadgets goes with a desire for all things well designed, minimalist, and cool. I guess I just want to have an office on a space station filled with Eames furniture. Sigh. In the meantime I'll settle for these devices.



Apple Cinema HD Display

\$3,499, www.apple.com

Absolutely the coolest surface in your studio...unless you live on the surface of the moon!

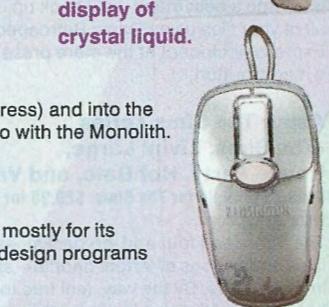


Earth's finest display of crystal liquid.

Sony PremierPro Series 24-Inch GDM-FW900 CRT Monitor

\$1,999.99, www.sonystyle.com

For color-correction perfectionists. It's ugly, though, so recess it into the hull.



Adobe InDesign

\$699, www.adobe.com

Get out of the Dark Ages (QuarkXPress) and into the Renaissance. Go with the future. Go with the Monolith.

Kensington StudioMouse

\$65.99, www.kensington.com

Cool design, but I want this mouse mostly for its preprogrammed functionality with design programs like Photoshop and Illustrator.

The center touchpad is the coolest bad idea I've ever seen.

Canon PowerShot S330 Digital Elph Camera

\$399.99 ESP, www.canon.com

This small digital camera is ideal for capturing visual ideas and roughing out layouts.



Epson Stylus Photo 2200 Color Printer

\$699, www.epson.com

This printer provides the best proofs for a client or potential client, or for printing out your favorite HAL 9000 screens.

Fonts

\$25 to \$1,000; www.fontbureau.com, www.fontfont.com, www.myfonts.com, www.bertholdtypes.com

A font sample book or a new collection of fonts is a treat for graphic designers. Check out Eurostile—very Zero Gravity Toilet, indeed.

Apple iPod 20GB

\$499, www.apple.com

If you work in more than one location and you love music, this is the most important tool of all. Listen to *Also Sprach Zarathustra* as you shuttle 500MB of Photoshop files home for a weekend of work.

In the Fontbureau collection book, you'll find some of the coolest fonts around—like Stainless, which we use on MacAddict covers.

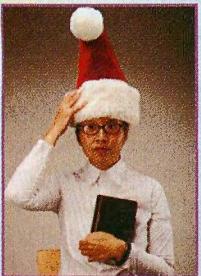
Pantone Survival Kit

\$239, www.pantone.com

These color-matching books are especially useful for all the out-of-work Web designers out there.

CATHY LU NEUROTIC VIRGO

Having been born on August 27, 1977 (OK, yes—one of those dates is a lie), I consider myself the quintessential Virgo. For those of you who don't believe in all this astrological stuff, the following characteristics define a Virgo: analytical, detail oriented, and careful. For those of you who are Virgos or endure the constant company of a Virgo, you know that actually means we're obsessive-compulsive, neurotic organizational freaks. That's why my dream holiday stocking would be filled with a cornucopia of gifts to help me (further) organize my shelves, my desk, my desktop, my hard drive, my...well, you get the picture.



Handspring Treo 270

\$499 (with service activation),
www.handspring.com

This color-screen cell phone and PDA allows you to keep addresses and phone numbers in one device. Simply heaven for the compulsive organizer.



The Handspring Treo replaces your cell phone and PDA with one does-it-all device.

Maxtor Personal Storage 5000 XT 250GB Hard Drive

\$399.95, www.maxtor.com

This FireWire/USB 2.0 external drive is a Virgo's best friend—it'll back up all of your files using Dantz Retrospect Express (included) at the mere press of a magic button.



Mmm... 250GB of backup storage space.

Aspyr The Sims series (The Sims, Livin' Large, House Party, Hot Date, and Vacation)

\$169.75 (\$49.95 for The Sims, \$29.95 for each expansion pack),
www.aspyr.com

The Sims (and four add-on packs)—a game that lets you control the lives and actions of virtual people—should satiate the control freak in every Virgo. By the way, feel free to give me half the games for the holidays and the rest for my birthday (again, that's August 27).



Two cords contained, a million more to go.

Logitech Cordless Navigator Duo

\$79.95, www.logitech.com

Cords are our enemy. A cordless mouse and keyboard will go a long way to clearing up that behind-the-desk mess.

Case Logic CDY-128 CD Wallet

\$29.99, www.casedirect.com

If there's one thing that makes uptight people cringe more than the site of ungainly software boxes, it's loose CDs. Case Logic's CD wallet stores 64 sets of discs and liner notes (or 128 CDs) in a dark-blue portable case.



Sporty and cute—just how I like my CD wallets.

iKlear Apple Polish Kit

\$24.95, www.apple.com

This kit comes with all the cloths, solutions, and wipes any dust-obsessed Virgo needs to keep iMac and iPod screens zestfully clean.

Panic Desktaastic

\$8.95, www.panic.com

Goodbye, unruly Post-it Notes! Desktaastic earns the "taastic" by letting you write notes that appear on your desktop. It's just like a virtual whiteboard.

CYRUS FARIVAR STARVING STUDENT

Our great forefathers at Apple, Woz and Jobs, had their humble beginnings at UC Berkeley, and as a true Mac addict, I have chosen to become educated at that fine institution. However, the warning light on my student bank account is flashing, so I need to think about where my next meal is coming from before I'm forced to pawn my precious Power Mac G4. I don't need much this holiday season—just a cheap word processor that can read those awful .doc files my unenlightened classmates send me, some low-cost software, and a few items for entertainment and sustenance.



AT ALL

ThinkFree Office

\$49.95, www.thinkfreeoffice.com

This sweet little word processor, spreadsheet, and presentation application is as Microsoft Office-compatible as you can get without buying a Bill Gates product.



Lemke Software GraphicConverter

\$30, www.lemkesoft.com

The finest piece of German engineering since the Mercedes Benz, GraphicConverter is a fantastic image-editing program. If I had it, I could use it to resize all my digital photos in a single batch.

ThinkFree Office has an interface that would make Bill Gates jealous.

Inferis MacReporter

\$12, www.inferis.com

This nifty little Dock app lets you know when your favorite Web sites get updated and provides quick access to the latest headlines.



SonicBlue RioVolt SP350

\$179.99, www.sonicblue.com

Not only does this fantastic CD player read both MP3 and WMA file formats, it comes with an FM radio!

Apple iBook with 12.1-Inch Screen, Combo Drive, and AirPort Card

\$1,598, www.apple.com

It's the best, cheapest, lightest, and sexiest laptop on the market. I could type up a storm in all my lectures, and with my AirPort card, I could jump aboard the campus library's wireless network.

The RioVolt handles both audio and MP3 CDs. Perfect for the youth of America.

Epson Stylus C60 Inkjet Printer

\$59, www.epson.com

This is just what I need to print late-night essays without having to run down to the computer lab. And please throw in an extra black-ink cartridge (\$29.95)—you wouldn't want me to run out of ink while printing out my A+ thesis, would you?



Rival Electric Hot Pot

\$9.99, www.bedbathandbeyond.com

I could use this to make piping-hot water for my hot chocolate, coffee, or tea at any time of day. Unfortunately it doesn't interface with my Mac. Oh, and while you're at it, could you throw in some Top Ramen, the staple of college students everywhere?

Sony CD Series Headphones MDR-CD180

\$19.99, www.sonystyle.com

An inexpensive upgrade from earbuds, these 'phones would cover my ears and let me crank my music while my roommate sleeps.

Penguin Caffeinated Peppermints

\$12 for a four-pack, www.peppermints.com

A quality student fuel—get your breath to smell good while staying up to finish those late-night papers.

Great for tuning out annoying roomies.

LESLIE OSBORN LIVING IN THE PAST

The other day, I tried to run Illustrator 10 on my Yosemite G3 (aka blue-and-white Power Mac). It did the Type 2 tango over and over until I felt utterly overclocked. Clearly, it was time to get with the program and do some serious upgrading. But being a humble associate art director, not privy to the free schwag that comes and goes here at the Galactic Headquarters, I decided it was time to hit up the other perennial free ride: good old Saint Nick. I'll make sure to put in a word with his pals down at the mall, just to be sure.



Microsoft Wireless IntelliMouse Explorer

\$74.95, www.microsoft.com

I hear the two-button mouse is the wave of the future.

Sonnet Encore/ZIF G4

\$199.95, www.sonnettech.com

Maybe ol' bluey just needs a shot of nitro. This upgrade card should do the trick by bumping me up to a 400MHz G4.



It's optical,
it's wireless,
and it's not
the puck!

Other World Computing 256MB PC133 SDRAM Memory

\$42.99, www.otherworldcomputing.com

Remember when 64MB was a lot of memory? Well, that time be over.

XGaming X-Arcade Universal Arcade Controller

\$179.94,

www.x-arcade.com

My one concession to nostalgia: the X-Arcade controller and Galaga on MacMame. Aw, yeah!



This controller takes me
back...way back.

Blizzard Entertainment Warcraft III

\$59.95, www.blizzard.com

Imagine my surprise when I discovered this mighty role-playing game had sequels.

SmartDisk FireFly 5GB Portable FireWire Drive

\$199.95, www.smartdisk.com

You can have my Zip disks when you pry them from my cold, dead fingers. Unless you give me this.

Toshiba PDR-3300

3.2-Megapixel Digital Camera

\$349, www.toshiba.com

I will miss the nice photo lady at Walgreens. Eh, not really.

Glico Men's Pocky

\$1.79, www.maruya.com

Since I'll be spending a lot more time in front of the screen, I've gotta keep the sugar flowing.

Apple iMac with 17-Inch LCD

\$1,999, www.apple.com

If you don't feel like going to the hassle of gathering all the different parts for my upgrade, feel free to get me this instead. I'll deal.



Good taste is
really gender
nonspecific.

MAX MACADDICT MASCOT

It's hard to be true to yourself when you're a world-famous mascot. Ask the San Diego Chicken. Fans assume he's just a fun-loving goof, but he tells me he'd really rather be debating Heidegger's postulates on hermeneutics than belly-slammimg unsuspecting umps. The Phillie Phanatic? Into 18th-century needlepoint. Smokey the Bear? A cranky drunk. Me? Well, to be honest, I'm a lot like you—except that I have a melon-size white head, no hair, and a limited repertoire of expressions. Other than that, I'm a Mac junkie, a lover of way-cool stuff, and a seeker of computing power—and the items on my wish list feed all those needs.



ScotteVest 2.5s Sport Wired Windbreaker

\$129.99, www.scottevest.com

My tux is quite debonair, I know, but I need more pockets for all my gadgets and gizmos. This vest not only has 22 pockets, it also provides a Personal Area Network so I can get all my cables and wires in order.

Sonnet Technologies Tempo Trio ATA/133, USB 2.0, and FireWire PCI Card

\$179.95, www.sonnettech.com

Hey, it's cool that my new Power Mac has upped its primary hard-drive bus to ATA/100, but I want more. With the Tempo Trio, I get two ATA/133 buses (plus USB 2.0 and FireWire). Of course, a pair of Maxtor DiamondMax Plus 9 160GB, 7,200-rpm Ultra ATA/133 drives would also help me out (\$599.90 for the pair, www.maxtor.com).



Two FireWire
ports, two USB
2.0 ports, and two
ATA/133 ports—it's
a speedburner's
dream date.

Apple Lisa

Approximately \$3,500 to \$4,000, www.ebay.com

The Apple Lisa, which will turn 20 next year, was the first mass-market personal computer with a graphical user interface—that is, if you can consider anything that initially cost \$9,995 "mass market." I've always wanted one.

Dr. Bott ADC Extension Cable

\$59.95, www.drbott.com

I've never owned a Mac as fast as my new dual 1GHz Mirrored Door Power Mac—but I've never owned one as loud, either. With this 10-foot ADC extension cable, I can keep my Cinema HD Display and Apple Pro Keyboard and mouse far from the madding fans.



CompuCable

CompuCable onCue USB Start-Up Key

\$16.99, www.compcable.com

After I move my new Power Mac far from my Cinema HD Display, it'd be nice to have a way to turn on the Power Mac from the keyboard. With an onCue attached to my Apple Pro Keyboard, I can.

onCue

Apple blew it
when the company
removed the power-
on button from its
keyboards. This USB
switch fills in nicely.

Sony Noise Canceling Fontopia Earbud Headphones MDR-NC11

\$149.99, www.sonystyle.com

As a final defensive measure against fan noise—heck, against any ambient sound, whether it be traffic noise or a hair-band-loving upstairs neighbor—I'll stuff these noise-canceling earbuds into my capacious canals. (See *Reviews*, Oct/02, p53.)



Sometimes peeeee
users need a little
technical assistance.

CafePress "Place on Head (an Aid for PC Users)" Baseball Hat

\$17.99, www.cafepress.com/macmania,thereforeiam,mac1,mac2

It's not that I enjoy ridiculing poor, misguided peeeee owners...well, actually, it is because I enjoy ridiculing poor, misguided peeeee owners.

We, the MacAddict staff, are a greedy bunch, and we'll accept gifts from anyone except manufacturers who are trying to bribe us for an "Awesome" rating.

Upgrading your system doesn't have to be complicated.

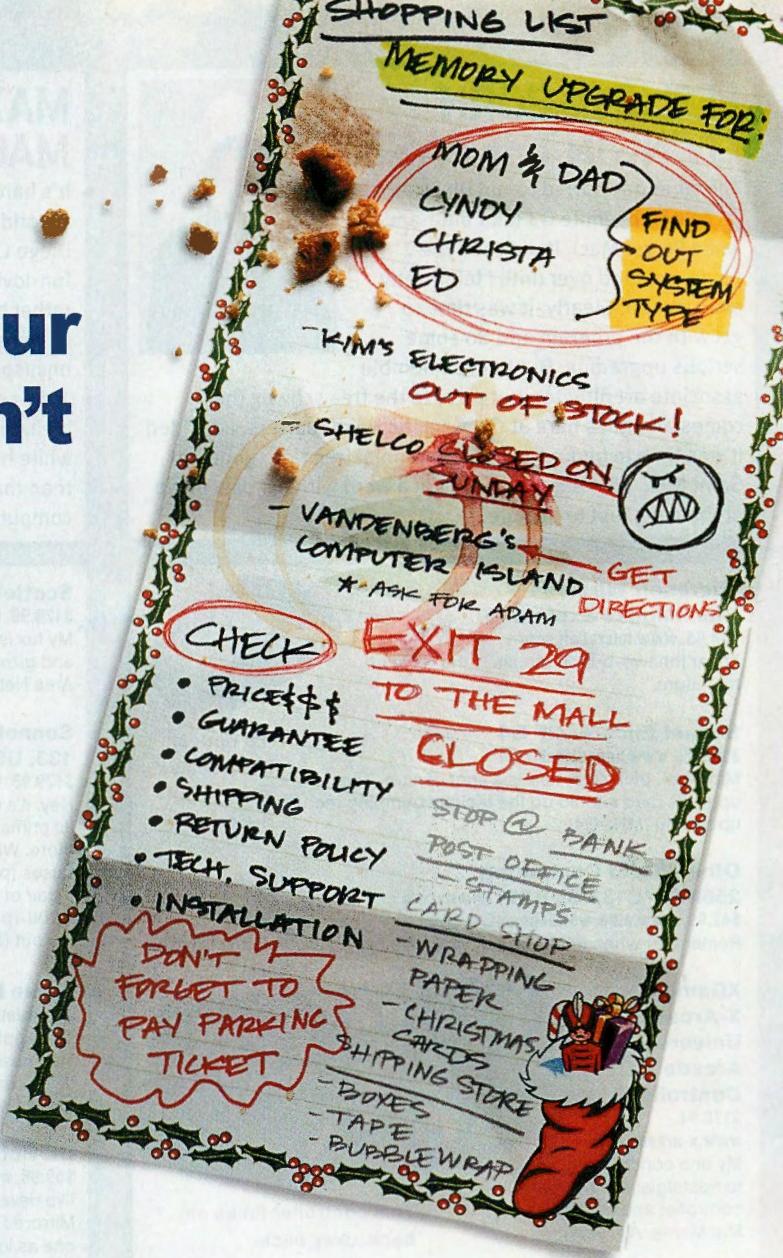


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- 42 Max Payne first-person shooter
- 52 Mercury Pro DVD-RW FireWire drive
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- 46 Premiere 6.5 video-editing software
- 52 Toshiba PDR-T10 2-megapixel digital camera
- 48 WarCraft III real-time strategy game
- 50 XPlay iPod-for-Windows utility

PLUS:
The Hot List

54 The best of the best from recent reviews.

Something old, something new, something fast, something...something for Windows, too! Don't fret—we're not reverse-switching, we just found an awesome utility that allows iPod owners to use their little buddy on a Windows PC at work and still sync it with the Mac back home—something you can't generally do with a Windows- (or Mac-) specific iPod. In the fast department, we review the top-dog Power Mac, a CD burner that may be too fast, and the fastest digital camera we've seen yet: the DiMage 7i (shown here). In the near future, we'll check out some awesome audio and video software, as well as storage options big and small, like an external DVD-RW drive that solves the iDVD support problem by including its own DVD-mastering software.



MacAddict Ratings

MacAddict RATED
AWESOME

You'll be blown away.

MacAddict RATED
GREAT

You'll be impressed.

MacAddict RATED
SOLID

You'll be satisfied.

MacAddict RATED
SO-SO

You'll be disappointed.

MacAddict RATED
LOUSY

You'll be pissed off.

X Compatible with Mac OS X or later.

9 Compatible with Mac OS 9 or earlier.



If we were shopping for this type of product, this is the one we'd buy.

Photoshop Elements 2

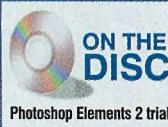
IMAGE-EDITING SOFTWARE

You'll love Adobe Photoshop Elements 2 so long as you understand what it is and what it isn't. It is a user-friendly image-editing application for digital-imaging enthusiasts. It isn't a complete substitute for Adobe's professional Photoshop product.

Installation was easy in both Mac OS 9 and OS X. In Mac OS X, two VISE installer icons appeared in the Dock: one icon for installing Photoshop Elements and another for installing multilanguage support.

The first new thing we noticed about Elements was the File Browser; while its interface smells slightly of Windows, it's nonetheless useful for browsing, organizing, renaming, and rotating images. Plus, the File Browser displays any selected image's EXIF (exchangeable image file) data in the lower-left panel. Note that if you've already cataloged your pics in iPhoto, you can set Elements as the default editing app in iPhoto.

The resemblance between Elements and Photoshop is easy to see, as Elements has most of the same tools,



Photoshop Elements 2 trial



Photoshop Elements doesn't provide all of its namesake's tools, but it has a lot of them—including File Browser.

palettes, and filters as its big sibling, with notable exceptions including the healing brush, patch tool, and Brushes palette. It also shares most of the pro version's brightness, contrast, and color controls, as well as a few unique tools, like a brush for red-eye removal and a selection brush for selecting or masking image areas.

One very important feature Elements does not have, however, is CMYK color support, which is crucial for professional designers looking to output their files to a professional printer. In addition, several tools and palettes aren't as rich as their Photoshop counterparts. Elements' many palettes behave much the same as Photoshop's; you can nest them all in the toolbar or arrange them in tabbed, multipalette windows to suit your work habits—but the default arrangement presents just the Hints and How To palettes onscreen, with the remainder crammed into the toolbar where new users might never find them. Also, you can't save multiple Workspaces (palette arrangements) as Photoshop lets you do.

Elements contains many help tools for the digital photography hobbyist. For example, the Quick Fix dialog's Enhance menu lets you try out brightness, color, and focus settings before you commit to

the adjustment, and also provides a tip on what the selected tool (Fill Flash or Adjust Backlighting, for example) does. Once you learn your way around, you can bypass the Quick Fix window and invoke tools directly from their respective toolbars and menus.

Elements offers the best combination of bang for the buck and user friendliness.

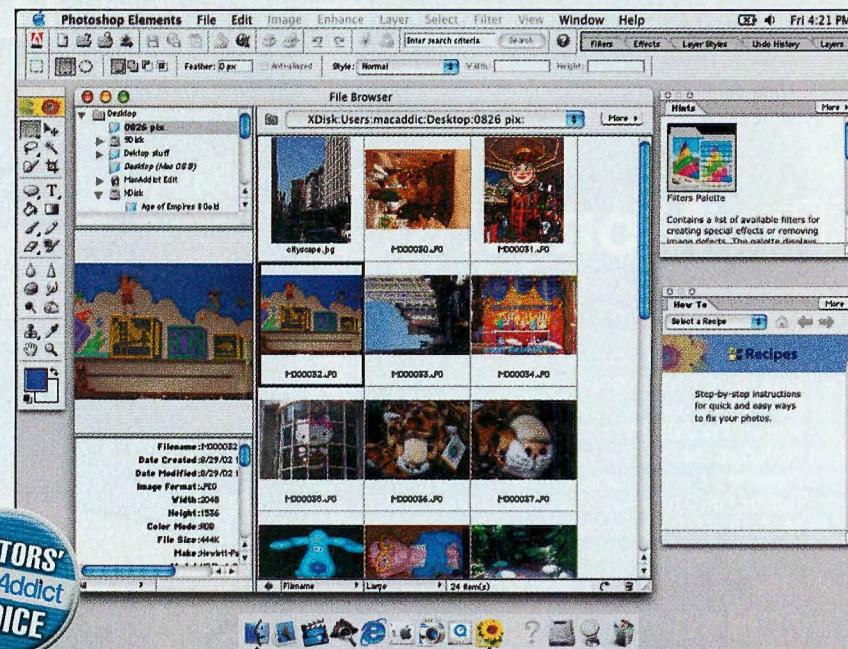
The How To palette has Recipes (mini how-tos) for common photo-editing fixes and crafty projects like creating a coloring book, as well as a direct link to more Recipes available on Adobe's Web site.

Photoshop Elements is best suited to prepping images either for output on an inkjet printer or for the Web. For printing, a feature called Picture Package (in the Print Layouts menu) allows you to print multiple pictures on one page. For the Web, a Save For Web option sports a two-up preview window and an option to create a Web photo gallery.

While hardly a substitute for the professional Photoshop product, Elements is the best combination of bang for the buck and user friendliness we've seen in image-editing software. With a powerful set of tools and a ton of self-help features, it can make any hobbyist look like a professional pixel pusher.—Narasu Rebbapragada



Just like the big guys, Photoshop Elements knows how to warp text.



COMPANY: Adobe Systems
CONTACT: 800-833-6687 or 408-536-6000,
www.adobe.com
PRICE: \$99 (SRP)

REQUIREMENTS: Power Mac, Mac OS 9.1 or 10.1.3 or later, 128MB of RAM, 350MB of free hard disk space

GOOD NEWS: Has most of the features in the full version of Photoshop for about \$500 less.

BAD NEWS: No CMYK support. Color-theory and photography lessons not included.



Dual 1.25GHz Power Mac

G4 TOWER

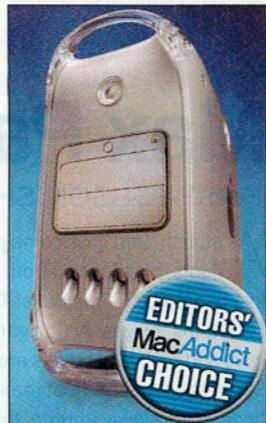
After last month's Power Mac love-fest ("The New Power Macs: Inside and Out," p20, and Reviews, p40), there's not much left to say. The latest crop of Power Macs represents a giant leap for Apple, both in terms of breaking the gigahertz mark the company finally reached some six months back with the Quicksilver series, and in the new

With a combined 2.5GHz of G4 processing power, this Power Mac was born to run.

lineup's advanced architecture, which it shares with the industrial-strength Xserve (see *Reviews*, Nov/02, p43).

Besides its extra megahertz muscle, the 1.25GHz dual has a couple other advantages over the dual 1GHz: a bigger hard drive (120GB versus the 1GHz model's 80GB); more stock RAM (512MB versus 256MB); and the real performance booster, 2MB of Level 3 cache—twice as much as in this generation's lower-level Macs.

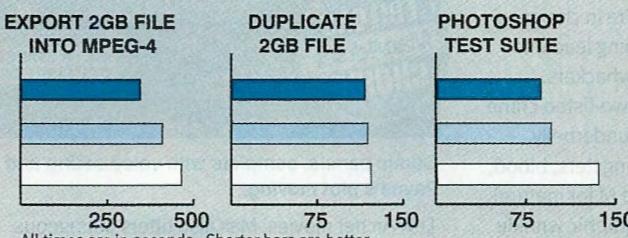
There's really nothing more to say, other than the obvious: Take a look at the speed chart below, then go out and get yourself one.—Niko Coucovanis



PHOTOGRAPH BY MARK MADEO

Fast, Faster, Fastest

When we tested all three members of the new Power Mac line, the results weren't surprising. On tests that stressed the processor, the 1.25GHz model showed its stuff. On tests that involved more-general resources, the differences in performance were less obvious.



COMPANY: Apple
CONTACT: 800-795-1000 or 408-996-1010, www.apple.com
PRICE: \$3,299 (SRP)

SPECIFICATIONS: Dual 1.25GHz PowerPC G4 processors, each with 256K of on-chip Level 2 cache and 2MB of backside Level 3 cache; 167MHz system bus; 512MB of PC2700 DDR SDRAM; 120GB Ultra ATA/100 hard drive; SuperDrive; ATI Radeon 9000 Pro graphics card with ADC and DVI ports

GOOD NEWS: Fast, fast, fast. Holds 2GB of RAM. **BAD NEWS:** Noisy. Architecture still doesn't take full advantage of DDR SDRAM.

MacAddict RATED
X 9 AWESOME

X 9

Hearing is believing.

Macworld
BEST OF SHOW
2 NOV 02

Sonica

- High-fidelity USB audio upgrade for Mac
- Supports AC3 and DTS surround output
- Simple USB connectivity
- 24-bit/96kHz analog + optical digital outputs



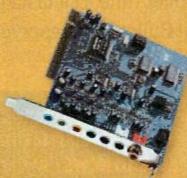
Sonica Theater

- Only USB solution for surround up to 7.1
- High-fidelity 24-bit/96kHz audio output
- Professional 24-bit/96kHz recording
- Real-time stereo-to-surround conversion



Revolution 7.1

- Only PCI solution for surround up to 7.1
- High-definition 24-bit/192kHz audio output
- Professional 24-bit/96kHz recording
- Real-time stereo-to-surround conversion
- Incredible 110dB SNR provides pristine audio



M-Audio's solutions deliver immersive **surround sound** on your Mac rivaling even the best movie theaters. Games, movies, and music—even your stereo CDs and MP3s—all sound more alive and intense with **M-Audio** surround solutions. Now you can enjoy high-definition **24-bit/192kHz** audio fidelity and popular surround formats including **Dolby Digital** and **DTS**. And all this advanced technology is as easy to use as your Mac.

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Max Payne

FIRST-PERSON SHOOTER

Ambush! Bad guys come pouring through doors, blasting you from all directions. In a panic, you hit the Bullet Time button. Everything freezes. Action grinds to a crawl. Bad guys and their lazy bullets move like molasses. Spent shell casings float through the air. A heart beats slowly (thump, thump), keeping time. Only one element moves at natural speed—you. And abruptly you're in charge, a one-man wrecking crew, pumping lead into each of the slow-motion bushwhackers.

Max Payne is a stunner, a two-fisted crime story set in New York's seamy underbelly, larded with cops, narcotics, gangsters, blood, and quirky adult themes (rated M for mature). It also introduces a neat new graphic wrinkle

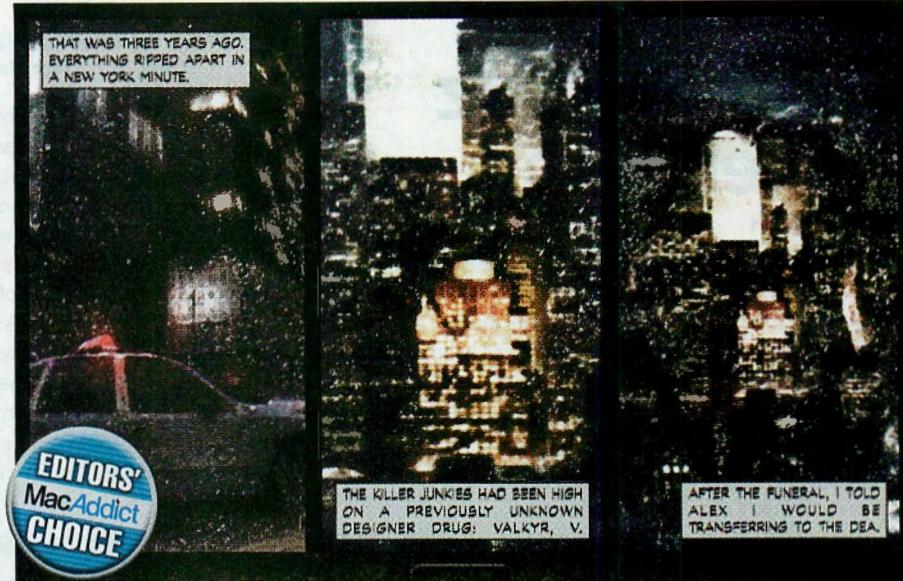
If you're an FPS fan, Max Payne will blow you away.

called Bullet Time, a time-stretching innovation that turns a dark film-noir story style of the 1940s into a more modern *Matrix*-style tale of the 1990s. And it makes even the grungier New York locales look gorgeous.

Max is a former cop who finds his wife and baby savagely slaughtered by whacked-out junkies, high on a new drug called Valkyr. Devastated, Max blows the junkies away, then goes deep undercover to track down the kingpins; along the way, he gets framed for killing a police officer. Hunted by both cops and mobsters, Max goes on a vengeance spree, simplified by a grinding snowstorm that keeps innocents off the streets, making anyone who moves fair game.

This story-driven shooter handles plot progression neatly. Max narrates most of it, in a dry monotone reminiscent of old Sam Spade and

Max wears a perpetual scowl of disgust, as if he's tasted something that should have remained in the kitty-litter box.



Comic panels, complete with voice-acting and sound effects, pop up frequently to keep Max Payne's plot moving.

Lew Archer movies. Max also utters outrageous metaphors and hammy clichés, but that's part of the 1940s-style fun. Colorful comic-strip panels, complete with sound effects and melodramatic voice acting, pop up periodically to illustrate complex story elements.

It's a dark and depressing criminal world, but it's very easy on the eyes. The action is intense, with slickly rendered villains swarming through dark 3D subways, snowy streets, and seedy hotels. They'll pursue you over rooftops, through warehouses and nightclubs, and in a mansion—subjecting you to one bloody

encounter after another. Bullets chew up walls. Explosions light up the night. True-to-life guns rattle away with muzzle flash and ejected shell casings. Villains lurk everywhere, eager for your blood. If it weren't for Bullet Time, the game might be too tough.

How big a kick is Max? Like firing both barrels of a double-barreled shotgun. Just about everything is on target—the hard-boiled story, the cutting-edge technology, the nonstop carnage, and the heart-stopping thrill of Bullet Time. If you're an FPS fan, Max Payne will blow you away.—John Lee

Slow-Mo Fever

Bullet Time is the great equalizer. Not only is slow-motion shooting great fun, but it's absolutely vital to your health.

Without the ability to slow enemy action, Max would die over and over. Even so, use it with care. You have only a limited amount of Bullet Time, and once it's gone, you have to kill a batch of baddies to build it back up again.

Fortunately, you can turn to a secondary device called Shootdodging. If you hit the slow-mo button at the same time as a movement button, your character floats forward, to the side, or backward with guns blazing. It's wild to watch and has the same freezing effect on enemies as normal Bullet Time, but lasts only until the dodging movement ends, conserving your Bullet Time reservoir for moments of sheer panic.



Shootdodging allows Max to slip into Bullet Time—and out of harm's way.

X

COMPANY: MacSoft
CONTACT: 800-229-2714 or 612-249-7600, www.wizworks.com/macsoft
PRICE: \$40 (SRP)

9

REQUIREMENTS: 450MHz G3, Mac OS 9.1 or 10.1.4 or later, 128MB of RAM (256MB in OS X), 900MB of free hard disk space, 16MB OpenGL-compatible video card

GOOD NEWS: Gritty film-noir style. Slick eye candy. Innovative Bullet Time feature slows action to a crawl.
BAD NEWS: Slow load times between levels. No multiplayer mode.

MacAddict RATED



GREAT



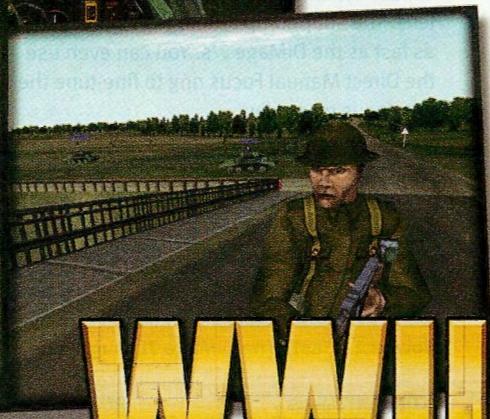
DW2

WWII ONLINE DIGITAL CAMOUFLAGE

Change history and fight for survival on the world's largest, most relentless virtual battlefield! **World War II Online Mac Edition** is a combined arms simulation in a persistent, online 3D environment that brings the action-packed days of World War II to life on your Mac. Create a character, climb the ranks and gain experience to build and lead combat missions with and against thousands of other players in the most dynamic, first-person war game ever!

NEVER SURRENDER

Change history and fight for survival on the world's largest, most relentless virtual battlefield! **World War II Online Mac Edition** is a combined arms simulation in a persistent, online 3D environment that brings the action-packed days of World War II to life on your Mac. Create a character, climb the ranks and gain experience to build and lead combat missions with and against thousands of other players in the most dynamic, first-person war game ever!



Blood
Violence

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**WWII
ONLINE**

DiMage 7i

5-MEGAPIXEL DIGITAL CAMERA

The Minolta DiMage 7i, an upgrade from its successful predecessor, the DiMage 7, has a similar body and still packs a whopping 5 megapixels. But the new DiMage surpasses the old with some stellar new features such as ultra high-speed shooting and a three-sensor autofocus that's twice as fast as the DiMage 7's.

One of the first things we noticed using the DiMage 7i is that the viewfinder looks more like a video camera's than a digital-still camera's. Minolta calls this mini-LCD a Digital Hyper Viewfinder—it can rotate upward 90 degrees, allowing you to look down into the viewfinder from above the camera. The electric viewfinder mimics the larger LCD on the back of the camera, and can display information such as a histogram, a frame number, and menu options. It's a cool idea, especially when bright sunlight washes out the LCD, but visualizing your subject matter through this bionic eye takes some getting

This camera can shoot continuously at unbelievable, breakneck speeds.

used to. We'd prefer having the electric viewfinder as an option alongside a traditional optical viewfinder.

The DiMage 7i has an astounding 7x optical zoom, equivalent to a 28mm-to-200mm zoom on a 35mm camera. The camera is also equipped with a 2x digital zoom for further enlargement. Add to that a maximum aperture of f-2.8 to f-3.5 and macro capability, and you've got a very versatile lens. The souped-up autofocus works twice as fast as the DiMage 7's. You can even use the Direct Manual Focus ring to fine-tune the autofocus manually.



What a difference an i makes: The DiMage 7i is just like the mighty DiMage 7, but with faster shooting and faster autofocus.

The DiMage 7i also offers an enhanced movie mode. Not only does the device capture 60 seconds of footage with sound, it can also shoot in Night Movie Mode and create time-lapse movies.

This camera can shoot continuously at unbelievable, breakneck speeds. In Ultra High Speed (UHS) continuous-advance mode, it shoots 7.14 frames per second. The image-quality setting you've chosen determines how many shots total you can take in this mode before the camera needs to take a break and save them all. In Standard quality you can shoot up to 15 frames, and in Economy, 39. The best part is that you can also save the lot as a separate VGA (640 by 480) movie.

The DiMage 7i saves images in one of five different quality settings: Raw, Superfine, Fine, Standard, and Economy. You can only open Raw images with the included DiMage Viewer software; the camera doesn't process these images at all, so they reflect the raw data captured by the CCD. A Raw image is 32-bit color as opposed to 24-bit. It also allows you to apply settings such as exposure, contrast, and white balance to the image

after the fact without any loss of quality. Superfine quality saves images as TIFFs, and all other quality settings save them as JPEGs.

The DiMage 7i comes with a built-in flash and a hot shoe for attaching additional Minolta flashes. You can also sync it with studio strobes, making it a viable option for a studio setting.

Add the DiMage 7i to the ever-growing list of high-quality prosumer cameras. If you're not ready for digital SLR but nevertheless crave the big-time megapixels, speed, and features required for entry-level studio work, this device is a worthy candidate.

—Leigh Webber



The 7i focuses and shoots as fast as it looks.



How fast is fast? The DiMage 7i caught our jumping Bean in the act.

X
9

COMPANY: Minolta
CONTACT: 201-825-4000,
www.minoltausa.com
PRICE: \$999 (SRP)

REQUIREMENTS: USB-equipped Power Mac, Mac OS 8.6-9.x or 10.1 or later, 128MB of RAM

GOOD NEWS: Ultra High Speed mode shoots up to 7.14 frames per second. Can create time-lapse movies. 7x optical zoom.

BAD NEWS: Disconcerting digital viewfinder. Long delay when using built-in flash.

MacAddict RATED

GREAT

PHOTOGRAPH BY MARK MADEO

PHOTOGRAPH BY MARK MADEO

PHOTOGRAPH BY NIKO COUCOUVANIS



Dear Burglar,

The key is under
the mat. Beer and
sandwiches are
in the fridge.

♥ Greg & Patty

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Premiere 6.5

VIDEO-EDITING SOFTWARE

The new Adobe Premiere 6.5 reminds us of a great prizefighter just a few years past his prime. Not long ago, Premiere was the hands-down champ when it came to editing video affordably on your Mac. Now, all Macs ship with the free and easy-to-use iMovie, and big shots flock to Final Cut Pro. Avid's brand-new Xpress DV offers still more competition. So does it make sense to place bets on the veteran Premiere, or should you lay your money on one of the fresher faces in the ring?

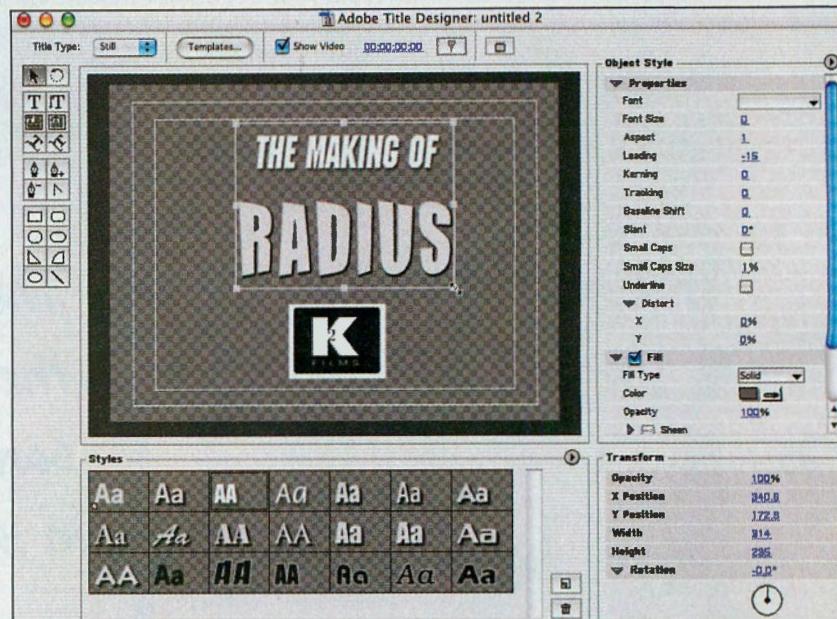
Rest assured that Premiere is still in great fighting form. It's a mature, full-blown video editor with plenty of refined, sophisticated features. For example, you can capture video from any DV camera or analog-video source (analog-capture card not included), organize media clips into bins, edit clips on the timeline with specialized tools (creating ripple edits, rolls, slips, slides, markers, match frames, and so on), mix audio tracks in

Premiere is still a world-class contender.

real time, apply keyframe video-filter effects, and build and animate text titles. Plus you can save your edited masterpiece back to tape, QuickTime digital files for the Net, CD-ROM, or DVD.

One of Premiere 6.5's biggest perks is its sparkly new real-time preview engine, which shows your effects as you apply them without wasting time and disk space rendering them beforehand. This is something every editor will love, and Premiere's

Premiere includes a slew of video filters, many of them brought over from Adobe After Effects.



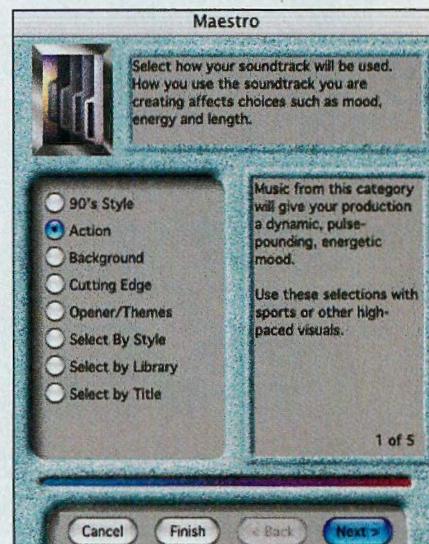
Premiere's Title Designer provides text and drawing tools to tweak your own titles, or you can import premade graphics.

implementation is surprisingly good—you can preview just about anything, including transitions, effects filters, motion effects, time effects, and titles. The preview feature works decently even on older G3s and G4s (for the record, Final Cut's real-time preview does less and demands beefier hardware).

Premiere's other big improvement is in the title-design department—no longer do you have to boot up Photoshop to add style to text. Instead, just open the new Adobe Title Designer window, and you can format text using 21 premade styles or create your own. You can control your text's kerning, leading, and tracking; skew text; place it on a curve; and either add outside artwork (like logos) to your titles or use standard drawing tools to create new art on the spot. You can also scroll text across the screen or roll it vertically, but it's still difficult to create standard credits with custom tab and alignment settings.

Premiere shows some weakness when you want to do higher-end editing work. For instance, it can't match Final Cut Pro's color-correction features and it can't work with HD video. Also, if you're interested in editing film digitally, then doing the actual cutting and splicing on your film negative so you can project it on a movie screen (this is how most films are still made), Premiere can't generate a cut list to follow (Apple's Cinema Tools adds this feature to Final Cut Pro for a cool grand).

It's taken Adobe almost 18 months to get



Premiere also includes a CD stuffed with royalty-free music called SmartSounds.

this moderate update out the door, and the PC version already includes a couple of nice features we'd love to see on the Mac, such as a free DVD-authoring program. One curious insult: We had to install Windows Media Player to watch the training videos on the CD!

But none of this takes away from Premiere's editing prowess. It's still a world-class contender for the majority of editing projects you can throw at it (with a few specialized exceptions). And at \$500, it won't KO your budget.—Helmut Kobler

COMPANY: Adobe Systems
CONTACT: 800-833-6687, www.adobe.com
PRICE: \$549 (SRP), \$149 and up (upgrades)

REQUIREMENTS: G3, Mac OS 9.2.2 or 10.1.3 or later, 64MB of RAM, 600MB of free hard disk space

GOOD NEWS: Tons of features. Bargain price. Real-time previews for all effects.
BAD NEWS: Infrequent updates from Adobe. Some high-end features missing.

MacAddict RATED
GREAT

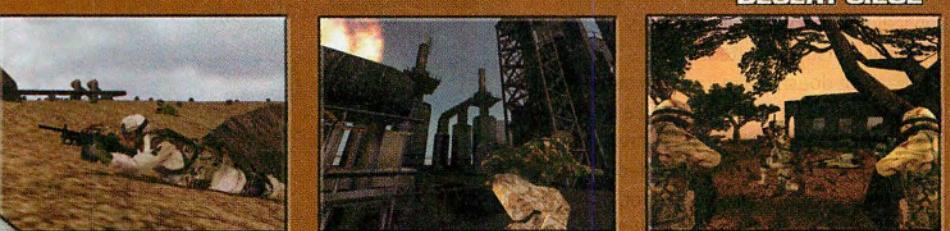
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WarCraft III: Reign of Chaos

REAL-TIME STRATEGY GAME

The wait is over for WarCraft and StarCraft fans. The epic battle between Humans and Orcs is reborn in WarCraft III: Reign of Chaos. The world of WarCraft has a new threat, as a mysterious prophet warns of the advancing demonic Burning Legion. The story unfolds with four points of view that you can play: the Humans, attempting to save their kingdom; the Undead, in league with the conquering demons; the Orcs, searching for a new home; and the Night Elves, defending their homeland against the invading races and demons.

The thrill of gathering resources, assembling forces, building structures, and researching technology for smashing your opponents remains in this version, and intermittent rescue and survival missions expand upon the story line. Along with the real-time strategy elements, you'll also encounter role-playing elements reminiscent of Blizzard's Diablo series. A hero can gain

WarCraft III raises the bar for real-time strategy games.

experience, advance levels, use items, and develop skills and spells. Under the new Upkeep rule, high volumes of personnel require high upkeep—meaning a big leech on your gold reserves. While a bit of a downer at first, this new system prevents massive hordes from devastating the landscape, making you use your forces and heroes more effectively, especially for online play. Features such as an Idle Worker button, Auto Cast settings for spells, and Auto Repair for workers near a damaged building provide much better ways to control your minions than WarCraft II and StarCraft offered. You can even save a replay of your games and either examine where you need to improve or just gloat over your victory.

We commend Blizzard's efforts in updating a great 2D strategy game while retaining the original's feel and playability, but the results are mixed. The game is

Kiss your social life good-bye: WarCraft III is here, and it's every bit as time-consuming as its predecessors.

astounding in three dimensions, but units can be difficult to see, even with the tilttable viewpoint. And even on a reasonably powerful eMac (a 700MHz G4), the game's movement and animation get a little choppy when you have many armies onscreen at once. This can be frustrating at times when you need every split second to attack your opponent effectively while keeping control of your troops—especially online, where chaos in the ranks means defeat.

The cinema cut scenes are marvelous and worthy of a big-budget film, engrossing you in the WarCraft world. The superb sound immerses you even more deeply with a wonderful soundtrack, good voice acting, ambient sounds (wind, birds, and so forth), and great sound effects. Also, the character designs look great and are both imaginative and functional. WarCraft III possesses a level of personality and quality that raises the bar for real-time strategy games.

When you finish the single-player missions, you can set up a single or team match between you and the computer, or go online and fight for fun and glory. Feel creative? Make custom maps and missions to modify your gameplay, then try them out on Battle.net (WarCraft's free online gaming service) and test your fellow players' mettle. LAN play is also supported.

WarCraft doesn't take itself too seriously, which is a refreshing change—and a lot of fun—in this conquer-the-world genre. It might not be the breakthrough video-game experience everyone was hoping for, but WarCraft III is a rewarding and addictive challenge.—Matt Osborn



The Craft of War

A good warrior knows his enemy. Bone up on the strengths and weaknesses of your foes (and friends) here.



HUMAN ALLIANCE

We are not alone in our fight! Humans are the most versatile, with good ground and air support, great siege weapons, and magic.



ORCISH HORDE

Orcs have the most powerful melee ground forces, but have weak air and ranged weapons. Magic makes them stronger and meaner.



UNDEAD SCOURGE

Well balanced, with powerful air and ground units. Necromancers can raise the dead of friend or foe, and the undead have the advantage of vast numbers.



NIGHT ELF SENTINELS

This race concentrates on ranged firepower and mobility. What they lack in the melee department they make up in magic.

X

COMPANY: Blizzard Entertainment

CONTACT: 800-953-7669 or 949-955-1382,

www.blizzard.com

PRICE: \$59.99 (SRP), \$79.99 (collectors' edition)

9

REQUIREMENTS: 400MHz G3,

Mac OS 9.x or 10.1.3 or later, 128MB

of RAM, 16MB ATI or nVidia 3D video

card, 700MB of hard disk space

GOOD NEWS: Endless, addictive play. Oozes personality.

Great sound. Beautiful cut scenes.

BAD NEWS: Choppy if you don't have a decked-out Mac.

Graphics could be better. Sucks up your time.

MacAddict RATED



GREAT

Boa FireWire CD-RW

48X/12X/48X DRIVE

Holy hyperspeed, Batman! 48X disc burning? Believe it, and the latest generation of EZQuest's Boa CD-RW backs up this insane burn speed with 48X read and 12X rewrite speeds. A 2MB burn-proof buffer spared us any burned bums.

The Boa includes everything you need in the box: a FireWire cable, a power cord (a nice, brickless one—the transformer is built into the drive's oversize case), and CharisMac's Discribe 5.0.18 disc-mastering software for Mac OS 9.x and OS X. Just how oversize is the case? At 10.8 by 8.5 by 2.8 inches, it probably won't break your back, but it'll surely warp your backpack. Despite its bulk, the case is attractive both visually (with a smooth graphite exterior) and functionally (with dual FireWire ports and stereo-RCA outs).

COMPANY: EZQuest

CONTACT: 714-694-0031, www.ezq.com

PRICE: \$219 (SRP), \$190 (street)

REQUIREMENTS: G3, 128MB of RAM,

Mac OS 9 or later, native FireWire port

The main problem with this ridiculously fast burner isn't the burner's fault at all: For straight disc-to-disc copying at 48X speed, you've got to feed data to the drive at speeds most drives

EZQuest delivers the fastest CD-RW we've ever seen—it's also the largest.

drives Apple builds into Macs, which can't read data (and hence feed it to the burner) faster than 32X. The Boa's 2MB cache buffer doesn't completely bridge the gap between 32X and 48X but granted us fast 40X speed, duping a disc from an iBook's 24X read drive. The supplied Discribe software provides both Check Speed and Test Write options for extra insurance against wasted discs. To eke the maximum speed out of this burner, we burned a 625MB disk image from

the connected Mac's hard drive (in just over 3 minutes), but creating the disk image first added 10 minutes.

This thing burns CDs faster than your mama burns toast.

The Boa burns CDs faster than your mama burns toast—you'd need to step up to a dedicated disc-duplicating device to beat its speed.—Niko Coucouvanis



PHOTOGRAPH BY W. B. JONES

MacAddict RATED



GREAT

X
9



The only True USB KVM & Peripheral Switch

MiniView™ III USB KVMP Switch.

How does it work?

Control multiple computers using one single keyboard, monitor and mouse.

■ MiniView™ III USB KVMP



IOGEAR's new MiniView™ III USB KVMP features a trendy, patented design to save you money and desktop space!

Its smooth body protects the most advanced KVM technology available. Whenever you choose to push the button on the KVM itself or use Hot Key control from your USB keyboard, you will simply control your multiple computers with the same Monitor, USB Keyboard and Mouse. This savvy KVM includes On Screen Display and allows you to easily share additional USB peripherals. It seems too good to be true, but here it is.

Available with 2 & 4 ports. (Models GCS1712 & GCS1714)

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Axeledge 1.5.3

3D-ANIMATION SOFTWARE

Axledge is a 3D-development and -animation program from MindAvenue that offers one of the best solutions yet for delivering 3D content on the Web. The foundation of Axeledge is a 3D modeler with a full suite of features, including primitive curves

Axeledge is one of the best solutions yet for 3D on the Web.

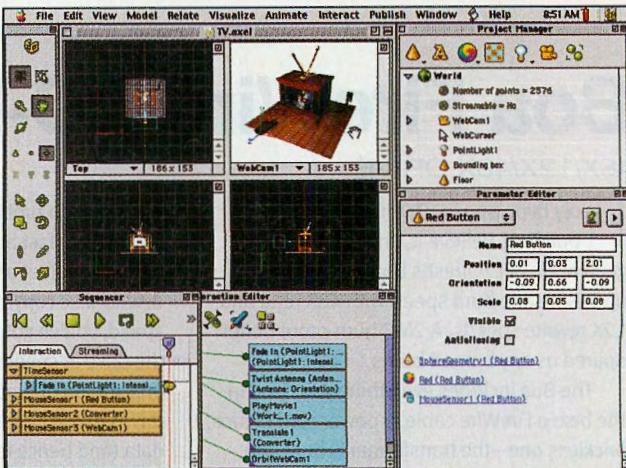
and surfaces, character animation with inverse and forward kinematics, and a particle system that makes creating raindrops and snowflakes child's play.

The user interface is surprisingly simple, with the standard four-pane model view and intuitive tools for visually

manipulating vertices or creating wired-sprite-style interactivity inside your model via drag-and-drop attributes. Anyone who's used Macromedia Flash or Director will find the program's traditional keyframe animation methods familiar.

AxelEdge's claim to fame is its ability to publish 3D content to the Web. The initial 1.5 release could only publish content in the Axel format, which required a plug-in for viewing, but over the past few months MindAvenue has released updates adding Flash (SWF) output, as well as an autodownloadable QuickTime component.

Axeledge is a nice 3D-creation and Web-



An easy-to-use interface and a full suite of 3D tools make Axeledge a good tool for creating 3D graphics on the Web.

publishing hybrid. Designers coming from either side of the table will find the application very powerful and easy to use. The addition of QuickTime and SWF delivery also makes it a much more viable tool for creating 3D for the Web. If the latter notion excites you, Axeledge is one of the best ways to start publishing 3D Web content today.—Rick Sanchez



ON THE DISC

Axeledge 1.5.3 trial

X
9

COMPANY: MindAvenue
CONTACT: 866-646-3283,
www.mindavenue.com
PRICE: \$950 (SRP)

REQUIREMENTS: 450MHz G3, Mac OS 9.2 or 10.1 or later, 128MB of RAM, QuickTime 5

GOOD NEWS: Easy to use. Feature rich. Exports in SWF format. Imports LightWave 3D.

BAD NEWS: Native Axel format requires a plug-in. Inverse kinematics limited to two bones. Expensive.



Hexa Media Drive

FLASH-MEMORY READER

Gadget junkies, listen up. You've got digital-lifestyle gadgets and flash memory cards out the proverbial wazoo. Your digital camera uses CompactFlash, your MP3 player uses Sony Memory Stick, your PDA uses Secure Digital, your other digital camera uses SmartMedia...

If this is you, you need LaCie's Hexa Media Drive; it's the most versatile card reader we've seen yet, handling CompactFlash I and II, Sony Memory Stick, 3.3V SmartMedia, SD Card, MultiMediaCard and IBM's Microdrive. Every supported card we fed it mounted on our desktop and launched OS X's Image Capture when appropriate.

Our only gripe with the Hexa Media Drive is that it's painfully slow—but that's due mostly to USB and flash memory of all kinds.

—Niko Coucavanis



The Hexa Media Drive has six sides and supports six flavors of memory card.

PHOTOGRAPH BY MARK MADEO

X
9

COMPANY: LaCie
CONTACT: 503-844-4500, www.lacie.com
PRICE: \$59.95 (SRP)

REQUIREMENTS: Mac with USB port, Mac OS 8.6–9.x or 10.1.2 or later

GOOD NEWS: Supports six different media types. Bus-powered. Palindromic SRP!
BAD NEWS: S-L-O-W.

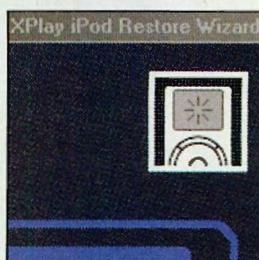


XPlay

IPOD-FOR-WINDOWS UTILITY

Mac addicts stuck on Wintel PCs at work or school rejoiced when Apple unveiled the Windows-compatible iPod—until they found out you can't use a lone iPod on both Mac and Windows systems.

Plan B comes from Mediafour; XPlay turns your iPod into a true double agent, capable of philandering with every Windows box in town and still playing nicely with your Mac at home, though like any iPod it can only autosync with one computer, be it a Mac or a PC. XPlay lets Windows recognize your Mac-formatted iPod as a FireWire drive or as the MP3 player of its dreams via Windows Media Player. Obviously, there's no iTunes for Windows, but XPlay gives you direct access to your various music and contacts directories so you can easily manage the files within.—Niko Coucavanis



Why endure Windows alone when you can bring along your iPod?

COMPANY: Mediafour
CONTACT: 515-225-7409,
www.mediafour.com
PRICE: \$29.95 (SRP)

GOOD NEWS: Makes your iPod more versatile.
BAD NEWS: Requires a PC. No iTunes.

REQUIREMENTS: iPod, Windows PC with certified IEEE 1394 (FireWire) port, Windows 98SE, ME, XP, or 2000

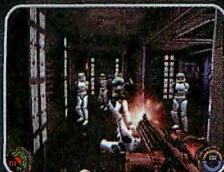


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Screenshots shown are from the PC version.

Mercury Pro FireWire DVD-RW

FIREWIRE DRIVE

We love the idea of burning digital video onto DVD disks, but if you can't spring for a new Mac with Apple's DVD-burning SuperDrive, OWC's Mercury Pro external FireWire burner provides the same functionality...almost.

The good news is that the Mercury incorporates Pioneer's DVR-104, the very same drive mechanism that Apple passes off as its SuperDrive. And while a handful of other companies (such as Formac) sell Pioneer's mechanism in their own casing, the Mercury's sub-\$400 price tag makes it one of the cheapest external superdrives.

Now the bad news: You still can't create

your own interactive DVDs unless you spend another \$999 on Apple's high-end DVD Studio Pro 1.5 software, which lets you author the interactive buttons, menus, and custom code that make DVDs do their thing (sadly, Apple's other DVD-authoring program—the free, fun iDVD—is available with and supports only SuperDrive-equipped Macs).

Besides burning (and playing) standard DVD movies, the Mercury can burn everyday Mac data to DVD-Rs or DVD-RWs using the included CharisMac Dcribe 5.0 software for Mac OS 9 and OS X. This gives you a great

The Mercury Pro has the heart of a SuperDrive, but not the brainy software.

backup tool, since the disks hold about 4.3GB of data—as opposed to a CD's measly 700MB. A jack of all trades, the Mercury can burn regular music and data CDs as well (CD-Rs burn at 8X speeds, CD-RWs at 4X).

But this drive is really about burning DVDs, and as long as you can bring your own authoring software to the party, it's currently the best value around for teaching an old Mac some cool new tricks.—*Helmut Kobler*



PHOTOGRAPH BY W.B. JONES

X
9

COMPANY: Other World Computing
CONTACT: 800-275-4576,
www.otherworldcomputing.com
PRICE: \$399.97 (SRP)

REQUIREMENTS: FireWire-equipped Mac,
Mac OS 8.6–9.x or 10.1 or later

GOOD NEWS: Low price. Ships with 5 blank DVD-Rs
and 25 CD-Rs. Audio-out jacks for home-stereo playback.
BAD NEWS: Poor documentation. Drive's enclosure
is a tad bland.

MacAddict RATED
GREAT

Toshiba PDR-T10

2-MEGAPIXEL DIGITAL CAMERA

With its groovy 1960s-style faceplates and an incurably *kawaii* (that means cute) Japanese form, we were excited to see if the Toshiba PDR-T10's performance would live up to its good looks. It's a spunky little camera, but in the end, form and funkiness trump its basic functionality.

The interchangeable faceplates are definitely cool. Toshiba gives you two, and you

requires only a finger or the supplied stylus, which hangs from the camera strap. Anyone with a basic grasp of iconography will find the touchscreen's menu interface intuitive.

The T10 most notably lacks a manual viewfinder—bad news since bright sunlight completely washes out the LCD, making outdoor photography a largely push-and-pray affair. Also, while the camera's shooting options are sufficient for basic snapshots, it has little in the way of advanced features—for instance, it lacks even a tripod screw.

The T10's photo quality isn't pro level, but it's fine for casual use; the flash and white-balance controls are adequate, and while low-



PHOTOGRAPH BY MARK MADEO

Form and funkiness trump its basic functionality.

can buy up to eight others (available in packs of four)—all nattily designed, although personally we would pass on the zebra skin. On its backside, the T10 sports an innovative and easy-to-use touchscreen menu system, the first we've seen on a camera; its operation

light photos come out a little noisy, this is typical of a 2-megapixel camera. The load time between shots is a bit long, however, even for a budget camera.

Despite its problems, the PDR-T10 is fashionably fun, portable, and easy to use. If you're interested in anything more than simple snapshots, however, you may want to pass—hard as it is to say no to such a pretty face.

—*Leslie Osborn*

X
9

COMPANY: Toshiba America
CONTACT: 800-829-8318,
www.dsc.toshiba.com
PRICE: \$299.99 (SRP)

REQUIREMENTS: USB-equipped
Mac, Mac OS 9 or later

GOOD NEWS: Wee. Fun. Hip. Near-perfect menu
and interface design. Fashionable.
BAD NEWS: Limited use. No manual viewfinder.
Slow shot-to-shot time.

MacAddict RATED
SOLID

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NOVEMBER 26TH

The New
Mac
HANDBOOK



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THE MAGAZINE ADVERTISED HAS BEEN RATED

A	AWESOME!
	Requires Accompanying Macintosh Computer to Use Included Disc
For Tips, Tricks, Expert Advice on How to Get the Most from Your Mac, and Some Excessive Geekiness.	

The Hot List

If the editors of MacAddict went shopping, this is what we'd buy.

Software

Audio

MOTU Digital Performer 3

\$795 (SRP), Feb/02, p58

This powerful pro-audio app has an incredible array of features.

Roxio Toast with Jam 5

\$189.95 (SRP), \$99.95 (upgrade from Toast 5 Titanium), Sep/02, p49

Burn CDs, MP3 CDs, DVDs, and VCDs, and edit audio.

Games

Aspyr Clive Barker's Undying

\$39.95 (SRP),

Nov/02, p50

This sophisticated shooter has a sophisticated story line.


Ambrosia Software Escape Velocity: Nova

\$30 (SRP), Sep/02, p48

Enjoy the perverse thrill of galactic domination.

Aspyr Medal of Honor: Allied Assault

\$50 (SRP), Oct/02, p43

WWII first-person shooter is a surefire classic.

Aspyr Return to Castle Wolfenstein

\$49.95 (SRP), Aug/02, p42

What's more satisfying than killing zombie Nazis?

Aspyr The Sims Hot Date

\$29.95 (SRP), Sep/02, p46

The Sims obey Petula Clark and go downtown.

Graphic Simulations Black and White

\$50 (SRP), Jun/02, p54

The battle between good and evil can really be a blast.

MacPlay Icewind Dale

\$49.99 (SRP), Aug/02, p51

Beautifully rendered RPG offers deep gameplay.

Graphics & Layout
Adobe GoLive 6.0

\$399 (SRP), \$99 (upgrade),

Aug/02, p39

Adobe's Web-site builder picks up new features.

Adobe InDesign 2.0

\$699 (SRP), \$149 (upgrade), \$300

rebate for owners of QuarkXPress 3.0 or later, May/02, p50

Look out, Quark—Adobe's rival layout tool kicks butt.

Adobe Photoshop 7

\$600 (street), \$149 (upgrade),

Jul/02, p46

Picture-perfect pixel pusher moves to OS X.

Macromedia Dreamweaver MX

\$399 (SRP), \$199 (upgrade), Sep/02, p44

Our favorite Web-development tool gets a strong upgrade.

Macromedia Flash MX

\$499 (SRP), \$199 (upgrade),

Jul/02, p51

It started in animation; now it can do anything.

Productivity & Utilities
Dantz Retrospect 5.0

\$79 to \$499 (SRP),

Aug/02, p50

Indispensable backup software goes Mac OS X.

Microsoft Office v. X

\$499 (SRP), \$299 (upgrade),

Feb/02, p42

The 800-pound gorilla of productivity applications.

This motion-graphics stud improves its 3D powers.

Apple DVD Studio Pro 1.5

\$999 (SRP), Oct/02, p55

Essential DVD-burning app gets better—a lot better.

Apple Final Cut Pro 3

\$999 (SRP), \$249 (upgrade),

Apr/02, p45

This pro-level video editor is a real-time revelation.


Discreet Combustion 2

\$4,999 (SRP),

Jun/02, p46

Sometimes the best is expensive—but worth every penny.

Electric Image Universe 4.0

\$995 (SRP), \$695

(for owners of Softimage, Maya, Lightwave, Cinema 4D, or 3D Studio Max), \$349 (upgrade from 3.x), \$449 (upgrade from 1.x)

and 2.x), Jun/02, p58

There's a reason why this is the 3D app: It's great.

Hardware

Audio

Apple 20GB iPod

\$499 (SRP),

Nov/02, p45

More storage, better software, cool accessories—it's all good.



This 23-inch, 1,920-by-1,200-pixel beauty inspires lust.

Formac gallery 1740

\$899 (SRP), Mar/02, p49

This advanced-technology LCD display comes cheap.

Input Devices
Griffin Technology PowerMate

\$45 (SRP), Sep/02, p55

Like Executive Editor Cathy Lu: beautiful and talented.

Kensington StudioMouse

\$59.99 (SRP), Oct/02, p54

This gorgeous mouse comes preprogrammed for graphics pros.

Printers
Brother 1870N

\$699 (SRP), Aug/02, p45

Need a sturdy laser printer? This one's a workhorse.

Epson Stylus Photo 820

\$99 (SRP), Feb/02, p55

This inexpensive, easy-to-use printer outputs great images.

Epson Stylus Photo 2200

\$699 (SRP), Oct/02, p42

The most stunning photo printer we've ever tested.

Scanners
Canon CanoScan LiDE 30

\$99 (SRP), Nov/02, p52

This entry-level scanner gets the job done inexpensively.

Epson Perfection 2450 Photo

\$399 (SRP), Oct/02, p48

This sophisticated scanner also handles transparencies.

Storage
Other World Computing Mercury Elite 160GB

\$349.95 (SRP),

Sep/02, p53

Handsome, sturdy drive is whisper quiet.

TDK veloCD

\$315.99 (SRP), \$275 (street),

Jul/02, p54

FireWire-equipped CD-RW drive is freaky fast.

WiebeTech MicroGB 40GB

\$279.95 (SRP), \$119.95 (bare case),

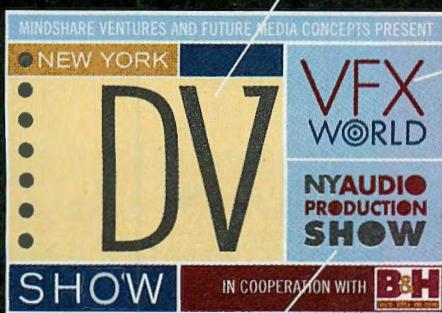
Jul/02, p56

A cool anodized-aluminum FireWire hard drive holds speedy innards.



The NY Digital Video Show.

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NY AUDIO PRODUCTION SHOW

Pro Tools International Users Conference

Jan. 30–Feb. 1 Divided into Digidesign Pro Tools for music or for post-production. Taught by FMC's Digidesign Certified Instructors and power users.

THE NY DV SHOW

Final Cut Pro International Users Conference

Jan. 30–31. 10 "need-to-know" sessions on FCP 3. Geared for the hi-end users.

Avid Editors Conference

Jan. 31–Feb. 1 Get creative and technical advice for creating stunning video with Media Composer/ Symphony (Jan. 31) and Avid Xpress DV 3.5 (Feb. 1).

VFX WORLD

3ds max International Users Conference

Jan. 30 Created for hard-core CG pros doing character animation and serious VFX productions.

After Effects International Users Conference

Jan. 31–Feb. 1 Created for editors, special effects and motion graphics pros and taught by Adobe Certified Experts, power users and gurus.

SOFTIMAGE|XSI International Users Conference

Jan. 30 Get the secrets to mastering SoftImage XSI 2.0 for creating and editing both environment and seamless animated characters. See how to push XSI to the max!

Maya International Users Conference

Feb. 1 It's how to get the most out of Maya Complete, from initial concept to final rendered image.

Don Bluth's ToonUp 2003 Animation Workshop

Feb. 1 Learn directly from legendary animation filmmaker Don Bluth and partner Gary Goldman in this 1-day classroom-style seminar.

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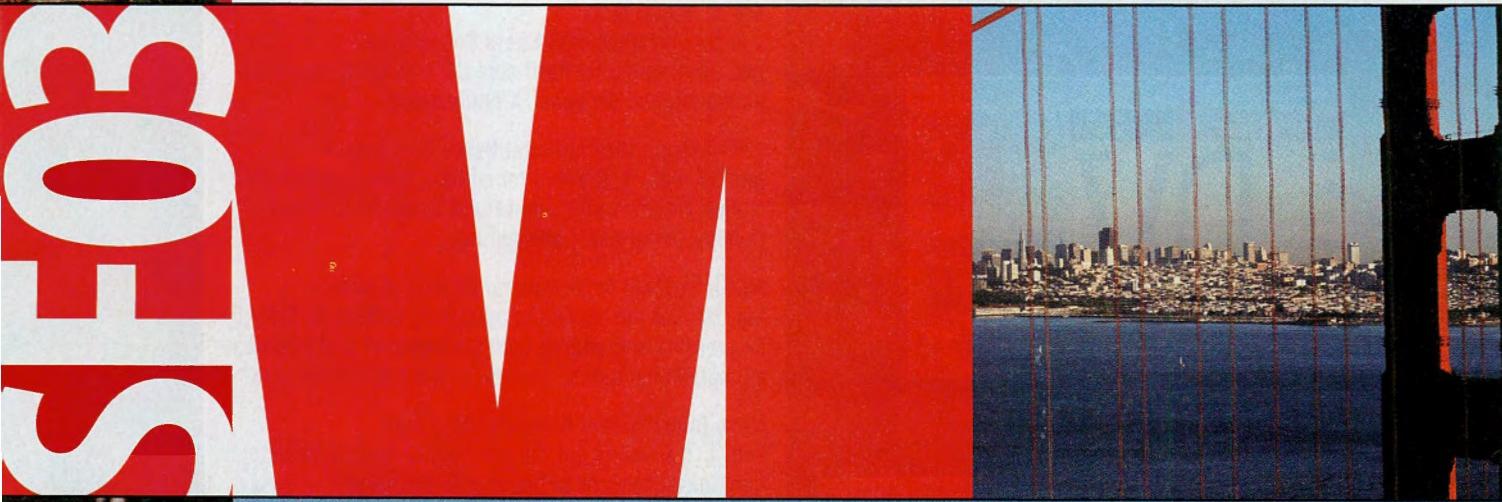
To exhibit: contact Guy Epstein at 212-645-8140 x 24 or guy@mindshareventures.com

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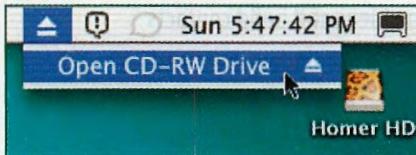
GOT A QUESTION?
NEED ADVICE?

ask us WE CAN HELP

JAGUAR GETS ITS PAWS ON THE EJECT BUTTON

Does Jaguar include any new ways to eject a CD from the drive?

Jaguar brings you a Menu Extra that gives you access to your Mac's internal optical drives right from the menu bar. Go to the System > Library > CoreServices > Menu Extras folder and double-click the Eject.menu item, which installs an eject icon in your menu bar. This shortcut works only on internal drives and won't control your external USB and FireWire drives. By the way, if you install a second optical drive in your new Power Mac G4, you can control that drive by holding down Option-eject on your keyboard.



Eject a CD from your Mac OS X menu bar.



UNIX UNIVERSITY

You asked for Unix and you got it. Each month, check here for nifty tips on using Unix.

TERMINAL BACKUP

Can I use Terminal to automate a system backup?

Sure, just use the **ditto** command. This command-line tool copies a directory's contents and maintains a file's resource fork, which contains programming information such as formatting codes. Here's the command line for backing up your Microsoft User Data folder (which contains Entourage or Outlook Express email) to a second hard disk:



RESTORATION HARDWARE

Why can't I boot up from the restore disk that came with my computer?

You used to be able to boot up your Mac from a restore CD to restore all the software that originally came with your computer.

Not anymore. Apple has recently changed the way you restore software. First, you must perform a clean install of Mac OS X. If you're a Mac OS X user, upgrade to version 10.2 (Jaguar) to get the Clean Install feature. Next, install the Restore application from the first restore CD and run that application. It will prompt you for the subsequent restore CDs and reinstall your software. Is this a better method? Only time will tell.



To fire the Mac maid, turn off Icon Arrangement In Mac OS 9 (left) or Snap To Grid In Mac OS X (right).

EXECUTE YOUR FILES

How do you make executable files in Mac OS X?

An executable file is one that your computer runs like programming code. Many shell scripts must be executable to run. In Terminal, you can use the **chmod** tool with the **-x** switch to make a file executable. For example, the following line makes a file called **backup.command** executable:

chmod -x backup.command

Use the **ls -l** command to confirm that the executable property has been set. The **ls** command should show an **x** in the permissions to the left of the file's name.

ICONOCLAST

How do I keep my desktop icons from organizing themselves in neat, little rows?

You have the right to an anarchic desktop. In Mac OS 9, choose View Options from the

View menu and set Icon Arrangement to None. In Mac OS X, choose Show View Options from the View menu and make sure Snap To Grid is unchecked.

CABLE SELECT

Why do some Power Macs require that you set their internal drives to Cable Select?

All Apple computers ship with IDE optical and hard-disk drives, also referred to as ATA drives. An IDE bus can connect to only two devices, distinguished by master and slave designations. You set up this configuration via special jumpers on the drives themselves. This system is simple but not perfect. If you configure both drives as slaves or both as masters, they won't work. Apple has

```
ditto -V -rsrc ~/Documents/"Microsoft User Data"/"Office X Identities" /Volumes/"Other HD"/EMAIL_BACKUP
```

This copies the contents of the Microsoft User Data folder to a folder called EMAIL_BACKUP on the drive named Other HD. Paste this command into a blankTextEdit document and name the file emailbackup.command or any other name with a .command suffix. This makes the document executable (see "Execute Your Files," above, for more information). You can now execute this file with a Cron utility like Koch und Schmidt Systemtechnik's Cronnix (free, www.koch-schmidt.de/cronnix). Cron is a Unix utility that can execute commands at a specified interval, allowing you to back up your files at regularly scheduled times.

addressed this issue in its newest Power Mac G4s (the dual 867MHz, 1GHz, and 1.25GHz Mirrored Door models released in August 2002) with an IDE cabling method called Cable Select. You simply set the drives to Cable Select, and your Mac decides whether they should be masters or slaves. All current IDE drives have a Cable Select jumper setting, and all G4 Mirrored Door models have drives set this way.

THE ALL-SEEING LS COMMAND

What is the Terminal command for viewing a list of files?

Type **ls** in the Terminal window to see a list of a directory's contents. For more-detailed information, such as the name of the file's owner and the permissions information, use the long-format switch by typing **ls -l** in Terminal. Typing **ls -al** lists all files—even hidden ones—in a directory.

THE SAFE HOUSE

What is the safest place to store computer equipment?

Store your equipment in a climate-controlled location, since extreme temperatures and humidity are the two biggest threats to your Mac's well-being. Apple provides storage temperature and humidity requirements for every Mac model in the Apple Spec Database (www.info.apple.com/support/applespec.html). For example, a slot-loading iMac requires a temperature between -104° F and 117° F with a noncondensing humidity of 5 to 95 percent.

THAT DARN ZOOMING

How do you disable window zooming in Jaguar?

Jaguar marks the return of zooming windows: Double-clicking a folder icon triggers an animation in which the window enlarges to reveal its contents. Window zooming is far subtler than the Genie Effect, but it's there. If you find it distracting or if it makes your

computer sluggish, you can disable it. Take a quick trip to Terminal and type the following command:

```
defaults write com.apple.finder
AnimateWindowZoom -bool false
```

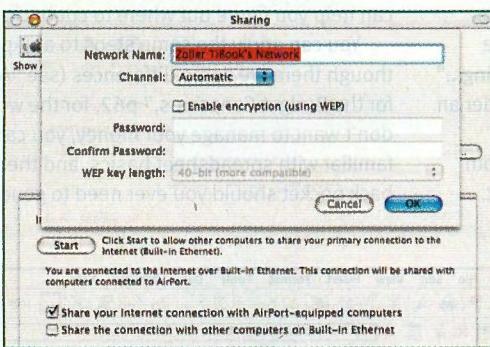
Restart your Mac or log out and log back in to see the changes. You can turn window zooming back on by typing this command:

```
defaults write com.apple.finder
AnimateWindowZoom -bool true
```

SOFTWARE BASE STATION IN X

How do I set up a software AirPort Base Station in Mac OS X?

With Jaguar, you don't need a \$299 AirPort Base Station. Setting up a software Base Station allows any Mac with an AirPort card to act as a Base Station and provide Internet access to other Airport-enabled Macs. In Mac OS 9, go to AirPort in the Apple Menu and click the Software Base Station button. In Mac OS 10.0 and 10.1, Apple removed this feature. In Jaguar, it's back. Connect one Mac to the Internet via Ethernet or modem, and then start Internet sharing via the Internet tab in the Sharing system preference. Next, set the other Macs to use AirPort in the TCP/IP control panel and configure them using DHCP.



Jaguar brings back the software Base Station.

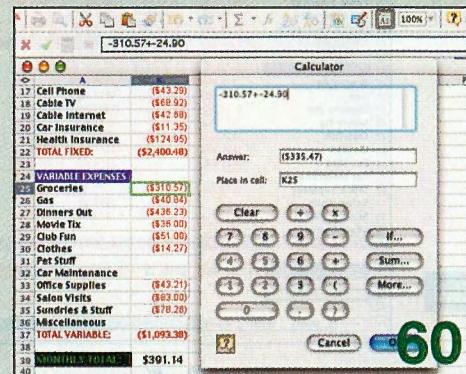
Submit technical questions or helpful tips directly via email (askus@macaddict.com) or c/o **MacAddict**, 150 North Hill Dr., Brisbane, CA 94005.

Six years of tech support for Apple, Power Computing, and a Texas school district have given Buz Zoller Mac superpowers.

This Month

60 Manage Your Money with Excel

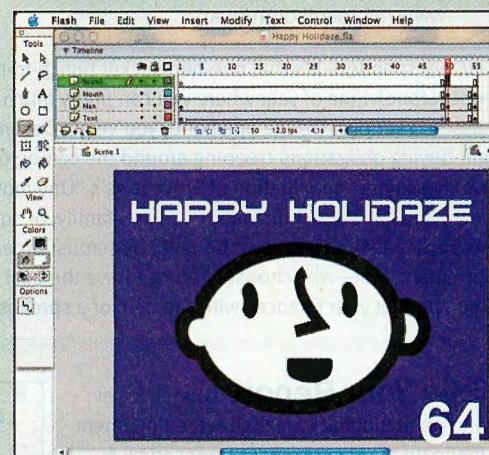
If you're having one of those "Where did all my money go?" moments, this little exercise in creating a budget report will reveal the (potentially painful) answer to that burning question. A latte a day keeps the savings away...



60

64 Create an Animated Holiday E-Card

Tired of searching through Web page after Web page just to find that perfect holiday e-card that isn't overwrought with goody-two-shoes cuteness? Why not put all that time and effort into rolling your own—we show you how.



64

Difficulty Ratings



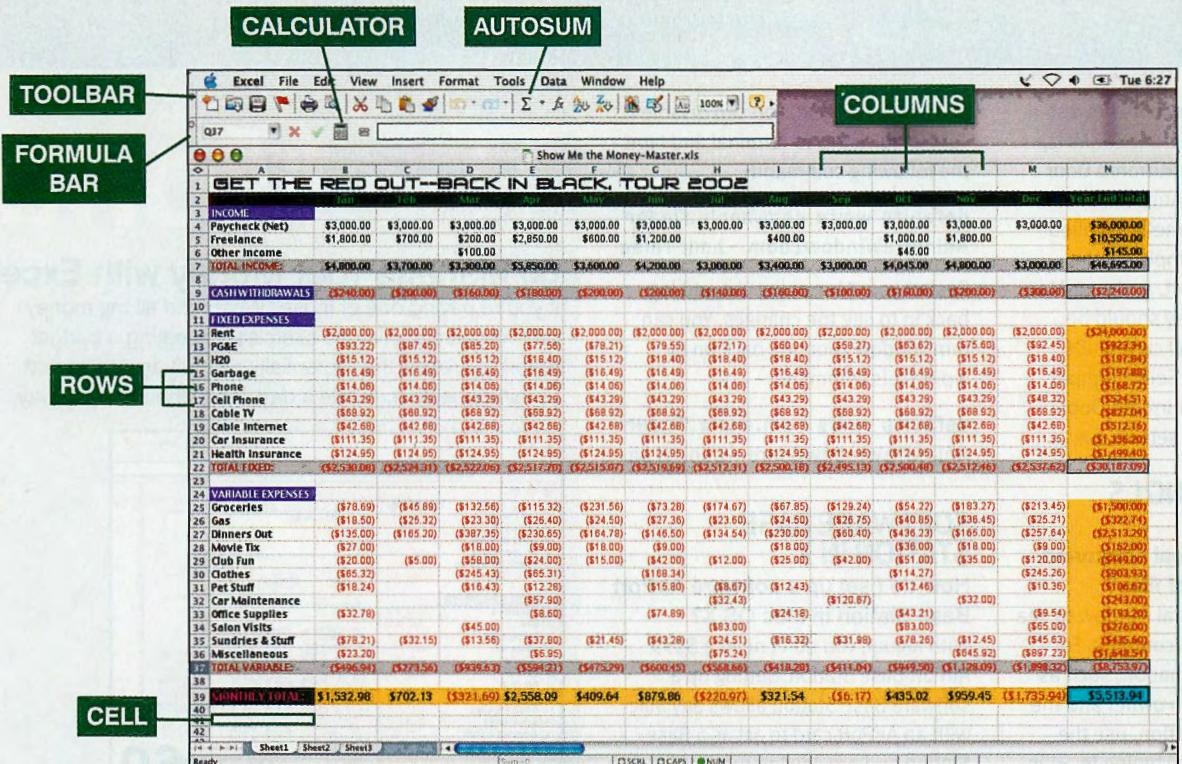
No whining—
anyone
can do this!



It'll take some
effort, but you
can do it.



This stuff's
for the pros.



Strapped for cash?
Rather than hire a pricey financial advisor, plot your expenses in a spreadsheet so you can see exactly where your compulsive spending habits lie.

Manage Your Money with Excel

by Kris Fong

WHAT YOU NEED

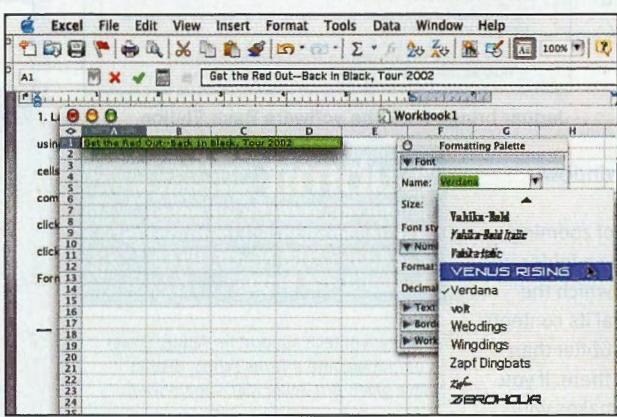
- TRICKY**
- Microsoft Excel, any version (\$399 individually, \$499 for the Office suite, www.microsoft.com/mac)

Hey, big spender—it's that one-two-sucker-punch-to-the-pocketbook time of year where you can pretty much kiss your assets goodbye. On the one hand, you've got December's holiday gift-buying obligations creeping around the corner; on the other, January's joyous anticipation of Steve Jobs's "One more thing..." Should you selflessly lavish gifts on friends and family, or squander an entire paycheck or two for your own benefit? Generous. Greedy. Humane. Human. Wait—why choose? You can have the best of both worlds if you budget your finances with the help of a spreadsheet.

1 Title Your Report Launch Excel and open a blank spreadsheet, a document made up of cells (boxes) referenced by a column letter and row number (A1, F18, M6, and so on). Name your budget report by clicking cell A1 and typing a title. To change the title font, highlight the text, click the Font disclosure triangle in the Formatting Palette (select Formatting Palette from the View menu if it's not displayed), and select a new font from the Name drop-down menu. Change the font size by selecting a number from the Size dropdown menu or by typing a number in the Size field. Press Return and save the spreadsheet with an appropriate title.

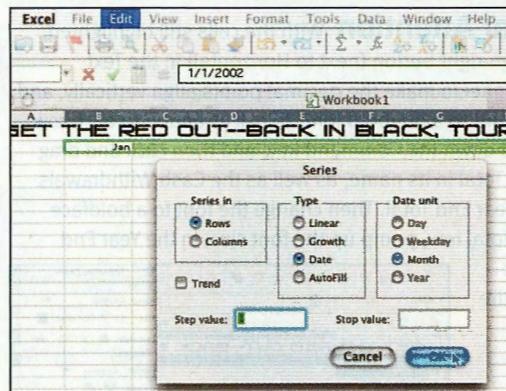
While we can't tell you specifically that you, say, need to cut down on your Starbucks spending sprees, we can show you how to create a simple but dynamic Excel spreadsheet that will display your yearly income and expenses, month by month, and automatically calculate your finances by month and by year to date. Use it diligently, and it can help you figure out where to cut back.

You can apply the same steps to an AppleWorks spreadsheet, though there are some differences (see "AppleWorks: The Budget App for the Budget Conscious," p62, for the workarounds). Even if you don't want to manage your money, you can use this information to get familiar with spreadsheet basics, and then tuck this knowledge in your back pocket should you ever need to generate a spreadsheet report.



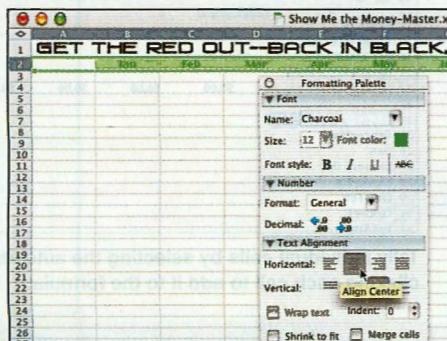
Use the Formatting Palette to change the appearance of text (such as its font, color, and alignment) in a cell, row, or column.

2 Add the Months Create a header of months, one month per column, across one row. Since column A will ultimately display a list of income and expense categories, start with column B. Type 1 in B2 and click the green checkmark in the Formula Bar. From the Format menu, select Cells. In the dialog that appears, click the Number tab and select Custom from the Category list. In the Type field, type *mmm*, then click OK—“1” will automatically become “Jan.” Edit the date in the Formula Bar to read 1/1/2002. Highlight the row of cells from B2 to M2, and from the Edit menu, select Fill, then Series. In the dialog that appears, select Rows, Date, and Month, and click OK. In cell N2, type *Year End Total*. To make the text fit, click the letter *N* at the top of the column. From the Format menu, select Column, then AutoFit Selection.



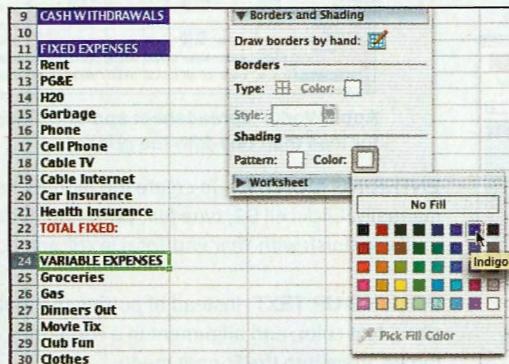
Rather than type in months manually, let Excel's formatting feature create the months for you.

3 Doll Up the Row Since your report is mostly numbers, edit the appearance of certain cells to make their information stand out. To call attention to the row of months, click the number 2 at the far-left side of row 2 to highlight the entire row (this lets you edit all selected cells at once). In the Formatting Palette's Font panel, choose a bold font and size, then click the Font Color swatch and choose a bright color from the palette. Click the Text Alignment disclosure triangle to open this panel, then click the align-center button next to Horizontal. Click the Borders And Shading disclosure triangle. In the Shading pane, click the Color swatch and choose black.



To center text within a cell, click the align-center button in the Formatting Palette.

5 Apply AutoFit and Make Over the Text The contents of your list is spilling over into column B. To resize the column to fit the lengthiest text entry, click and drag cell A3 down to Monthly Total. From the Format menu, select Column, then AutoFit Selection to change the width. Change the column's font and size to match your month header text. For the Income, Cash Withdrawals, Fixed Expenses, and Variable Expenses cells, click each cell and change the font and shading color to add emphasis. Change the font color of each section's Total cell, and finally change the Monthly Total cell's font color, size, and shading to make it really stand out.



Make section headers stand out by adding a color shading to these cells.

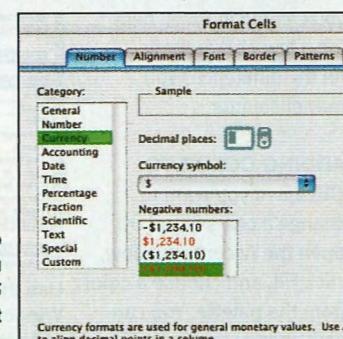
4 List Your Cash Flow Items In column A, list your income sources, fixed expenses (the one-payment-a-month stuff, like rent and utilities), and variable expenses (the garbage pit of your spending habits, like groceries, gas, and pet psychiatry bills). Click cell A3, type *INCOME*, and press Return to jump down one cell to the next row (A4). Type *Paycheck (Net)* (or the like) and press Return. List other sources of income in subsequent rows. Type *TOTAL INCOME*: as the last entry of the Income section. Skip a row, then type *CASH WITHDRAWALS*. Skip a row, type *FIXED EXPENSES*, press Return, and list these items in separate rows, ending with *TOTAL FIXED*: in the last row. Skip a row, type *VARIABLE EXPENSES*, press Return, list your spending-habit categories, and end with *TOTAL VARIABLE*: Skip a row, then type *MONTHLY TOTAL*.

List your income and expense sources—the more categories you supply, the easier it is to see where your dollars go.

	A	B
1	GET THE R	Jan
2	3 INCOME	
4	4 Paycheck (Net)	
5	5 Freelance	
6	6 Other Income	
7	7 TOTAL INCOME:	
8		
9	9 CASH WITHDRAWALS	
10	11 FIXED EXPENSES	
11	12 Rent	
12	13 PG&E	
13	14 H2O	
14	15 Garbage	
15	16 Phone	
16	17 Cell Phone	
17	18 Cable TV	
18	19 Cable Internet	
19	20 Car Insurance	
20	21 Health Insurance	
21	22 TOTAL FIXED:	
22		
23	24 VARIABLE EXPENSES	
24	25 Groceries	
25	26 Gas	
26	27 Dinners Out	
27	28 Movie Tix	
28	29 Club Fun	
29	30 Clothes	
30	31 Pet Stuff	
31	32 Car Maintenance	
32	33 Office Supplies	
33	34 Salon Visits	
34	35 Sundries & Stuff	
35	36 Miscellaneous	
36	37 TOTAL VARIABLE:	
37		
38	39 MONTHLY TOTAL:	
39		

6 Format the Cash Cells

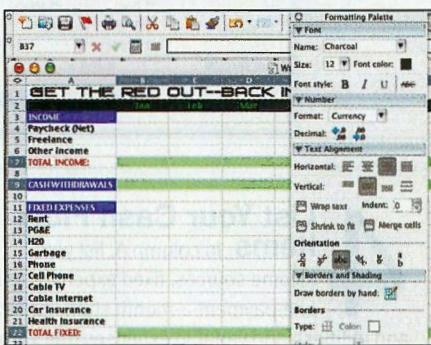
To format cells to display currency, click cell B4, labeled Paycheck (Net), and drag the cursor down all rows and across all months and the Year End column to highlight them. From the Format menu, select Cells. In the Format Cells dialog, click the Number tab, select Currency from the Category list, enter 2 in the Decimal Places field, and select the dollar sign (\$) from the Currency Symbol pop-up menu. Then choose how you want Negative Numbers to display (we chose red numbers between parentheses). Click OK.



If you format cells to display currency, you can simply type 1245 and Excel will format it to display \$1,245.00.

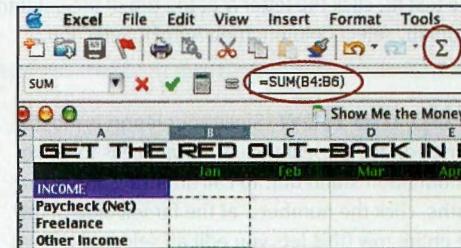
7 Get Total Attention With the cells still highlighted, click the align-right button (next to Horizontal) in the Text Alignment panel to make the decimal points align vertically, and change the font to a nonbold font. To call attention to each row displaying totals, hold down the Command key, and then click and drag across every row with Total in its name, as well as the Cash Withdrawals row, from January to Year End Total. Then change the font to a boldface one. For the Monthly Total row, pump up the font size. In the Year End Total column (N), click the *N* to select the entire column, and change the font and size to match that of your Monthly Total row.

To make changes to multiple rows in one fell swoop, hold down the Command key while dragging across your selections.

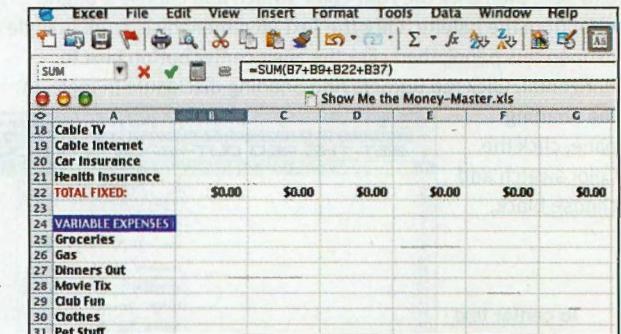


9 Finish the Formulas For the monthly totals, click January's Monthly Total cell, click the autosum tool, and then click January's Total Income, Cash Withdrawals, Total Fixed, and Total Variable cells, one by one, to build the formula. Click the checkmark. Then highlight the Monthly Total row across all months to Year End Total; from the Edit menu, select Fill, then Right. For the Year End Total column, click cell N4 (the Paycheck Year End Total), click the autosum tool, click and drag from cell B4 to M4 (your paycheck amount for all months), and click the checkmark. Highlight column N from cell N4 down to your Monthly Total row; from the Edit menu, select Fill, then Down. In column N, clear the formula from cells in spacer rows (those that don't include any income or expense data). Save your file.

8 Do the Math Hate number crunching? Set Excel to calculate section subtotals, monthly totals, and year-end totals automatically so you don't have to. Click January's Total Income cell, then click the autosum tool in the toolbar (the Greek sigma). Click and drag over every income source cell for January (the formula displays in the formula bar), then click the checkmark (\$0.00 displays in the cell, since you haven't entered figures yet). To apply this formula to the other months, highlight the Total Income row across all months to Year End Total. From the Edit menu, select Fill, then Right. Repeat with the Total Fixed and Total Variable rows, using their respective cells.



Use the autosum tool to make Excel crunch numbers in selected cells all on its own.



Tally individual cells by selecting the autosum tool and then clicking each cell to add it to the formula.

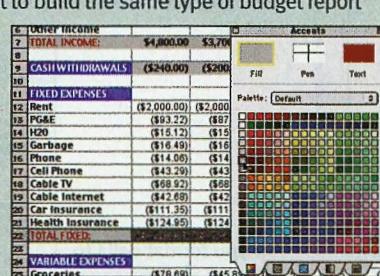
AppleWorks: The Budget App for the Budget Conscious

Excel may be the standard in the workplace, but at \$399 for the single app alone, we'd rather buy Apple's cheap yet nifty alternative, AppleWorks (\$79 or free with an iMac or iBook, www.apple.com), and use the money we saved to splurge on a 5GB iPod. If you've got AppleWorks, you can apply our Excel instructions to an AppleWorks spreadsheet.

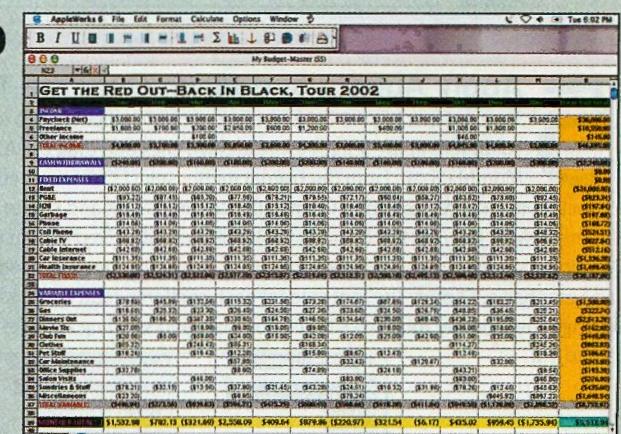
Launch AppleWorks and click Spreadsheet from the Starting Points dialog. The app opens a blank spreadsheet and interface that's almost identical to Excel's. If you want to build the same type of budget report you created in Excel, here are a few workarounds for the differences you may encounter.

ADDING COLOR TO CELLS

If you want to change a cell's fill color, open the Accents window, click Fill, and choose a color from the palette. You can also change text color here.



Use the Accents window (from the Window menu, select Show Accents) to change a cell's fill or text color.



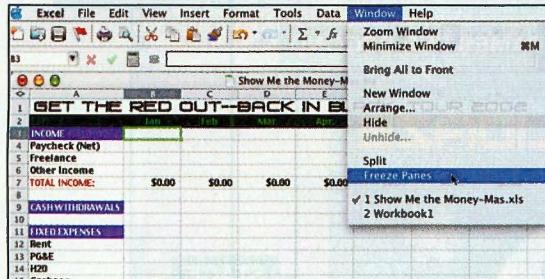
AppleWorks' spreadsheet app does most of what Excel does for less than one-fifth the price.

ENTERING MONTHS To create the months header, type it in manually. Click cell B2, type *Jan*, press Tab, type *Feb*, and so forth, until you finish with Year End Total in column N.

DOLLING UP TEXT Instead of putting the tools for changing fonts, sizes, text color, and alignment in a Formatting Palette, AppleWorks throws them into the Format menu.

10

Freeze the View Because data for the latter months of the year are so many columns away from your income and expense column, it's difficult to view both without having to scroll back and forth to plug in figures. To combat this, freeze the panes. To make your income and expense list and your months header stay put while you scroll through data, click cell B3. From the Window menu, select Freeze Panes. (To unfreeze the column and rows, click cell B3 and select Unfreeze Panes from the Window menu.)



Eliminate constant window scrolling by freezing panes.

11

Roll In the Dough Time to plug in the numbers. Go through your list of income and expenses and type in the appropriate figures. For all income, type normally—for example, type 1500 to represent \$1,500.00 or 3540.68 to represent \$3,540.68. For expenses and cash withdrawals, type a minus (-) sign preceding all figures. For example, we typed -63.62 for our October PG&E bill; Excel converted the cell to display (\$63.62) in red, meaning this figure was negative cash. Notice that your spreadsheet dynamically recalculates your totals as you plug in numbers.

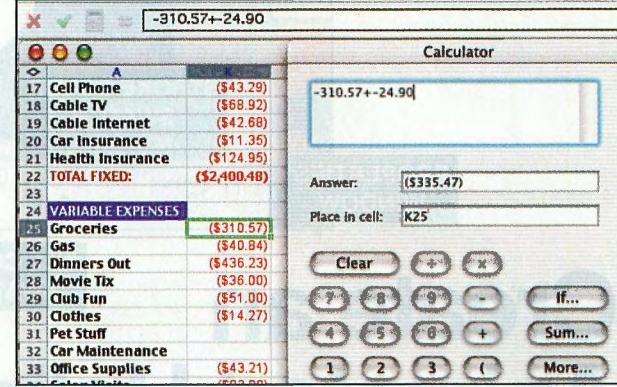
26	Gas	(\$40.84)
27	Dinners Out	(\$436.23)
28	Movie Tix	(\$36.00)
29	Club Fun	(\$51.00)
30	Clothes	(\$14.27)
31	Pet Stuff	
32	Car Maintenance	
33	Office Supplies	(\$43.21)
34	Salon Visits	(\$83.00)
35	Sundries & Stuff	-78.28
36	Miscellaneous	
37	TOTAL VARIABLE:	(\$1,015.12)
38	MONTHLY TOTAL:	\$469.40

Type a minus sign before each expenditure or cash withdrawal; otherwise, Excel will read your erroneous entry as positive cash flow.

12

Add Multiple Expense Entries Granted, most of you gas up your car and make Twinkie runs more than once a month. Though you have single cells for Gas and Groceries entries, you can enter multiple receipts within them even if you've previously put in a figure. To add an additional receipt for, say, October's Groceries expense, click the cell, then click the calculator tool in the formula bar; the current figure displays in the calculator screen. Add the new receipt by clicking the plus (+) sign in the Calculator, typing the figure preceded by a minus sign, and clicking OK. Your new figure displays in the cell; to view a breakdown of individual expense entries for an item, click its cell and view the info in the formula bar. Finally, select Save As from the File menu and rename the sheet with 2002 in its title (use your original file as a template). Now comes the tough part—figuring out where to cut back.

Kris Fong creates spreadsheets with ease, but she still has trouble remembering to plug in info.



If you're a shopaholic, add multiple receipts to any cell using Excel's calculator tool.

RESIZING COLUMNS

AppleWorks features two commands—Autosize Columns and Autosize Rows—that work the same as Excel's AutoFit feature. Find these in the Format menu.

FORMATTING CELLS FOR CURRENCY Select the targeted cells and choose Number from the Format menu. In the Options dialog, choose Currency from the Numbers drop-down menu, and select your number display preferences.

CREATING SUBTOTAL FORMULAS

AppleWorks features an autosum tool similar to Excel's, but it works a bit differently. When creating the formula for each section subtotal—say, Total Income—first click and drag over all income source cells, including the Total Income cell, and then click the autosum tool to add the formula. To apply the formula to other cells, highlight the targeted bunch; from the Calculate menu, select Fill Right (or Fill Down).

VARIABLE EXPENSES		
25	Groceries	
26	Gas	
27	Dinners Out	
28	Movie Tix	
29	Club Fun	
30	Clothes	
31	Pet Stuff	
32	Car Maintenance	
33	Office Supplies	
34	Salon Visits	
35	Sundries & Stuff	
36	Miscellaneous	
37	TOTAL VARIABLE:	\$0.00
38	MONTHLY TOTAL:	\$0.00

Add individual cells to build an accounting formula by merely clicking them.

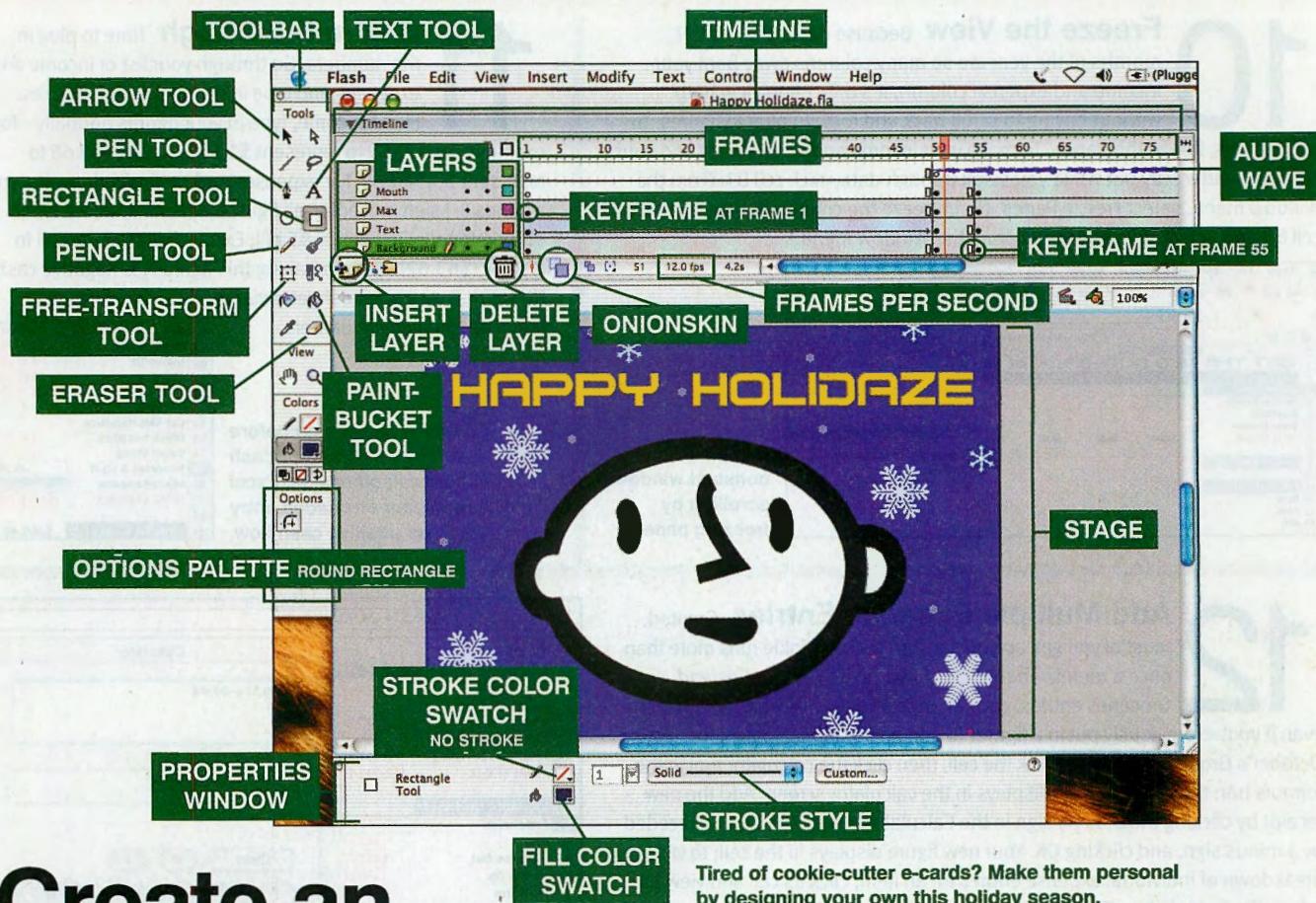
CONFIGURING MONTHLY TOTALS

For Monthly Total, you need to enter the formula partly manually. Click January's Monthly Total cell and type =SUM(in the entry bar. Then click the Total Income, Cash Withdrawals, Total Fixed, and Total Variable cells in January's column (the app automatically inserts a plus sign in the formula). Type) in the entry bar to end the formula, and press Return to add it. Then highlight the entire row, and select Fill Right from the Calculate menu.

MAKING MULTIPLE ENTRIES To add another receipt to, say, February's Groceries cell, click the cell. Then type an equal (=) sign in the entry bar before the current figure; type a plus sign after the figure; type in the new expense, preceded by a minus sign; and press Return to calculate the new total.

C25	f(x)	X	✓	= -45.89+34.67
A	B	C	D	
19	Cable Internet	(\$42.68)	(\$42.68)	(\$42.68)
20	Car Insurance	(\$111.35)	(\$111.35)	(\$111.35)
21	Health Insurance	(\$124.95)	(\$124.95)	(\$124.95)
22	TOTAL FIXED:	(\$2,530.08)	(\$2,524.31)	(\$2,522.06)
23				
24	VARIABLE EXPENSES			
25	Groceries	(\$78.69)	(\$80.56)	(\$132.56)
26	Gas	(\$18.50)	(\$25.32)	(\$23.30)
27	Dinners Out	(\$135.00)	(\$165.20)	(\$387.35)
28	Movie Tix	(\$27.00)	(\$18.00)	
29	Club Fun	(\$20.00)	(\$5.00)	(\$58.00)
30	Clothes	(\$65.32)	(\$245.43)	
31	Pet Stuff	(\$18.24)	(\$16.43)	

Though AppleWorks lacks the cool Calculator tool, you can calculate multiple figures in one cell by typing a simple formula.



Create an Animated Holiday E-Card

by Chris Florio



WHAT YOU NEED

- Macromedia Flash—or trial version (\$499, www.macromedia.com)
- An audio file or mic (built-in or external)
- An audio-recording app (optional)

You say it's your birthday (it's my birthday, too, yeah), or your anniversary, or Valentine's day—so what do you do? You park your butt in front of your Mac to see what animated e-card curiosities found their way into your email box. After subjecting your eyes to quirky characters who dance the robot to circus-style computer tunes and then mouth ridiculous sentiments rivaling bad kung-fu movie overdubs, you start thinking, "I can make a better card than that." So do it—it's not that difficult and it won't cost you a penny.

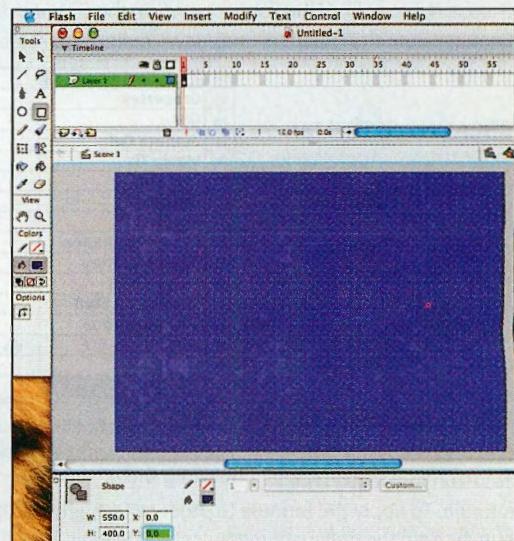
To celebrate the holidays, we show you how to use

Macromedia Flash to design and send your own e-card, complete with music and animation—feel free to copy our design or apply our instruction to your own creative brain bursts.



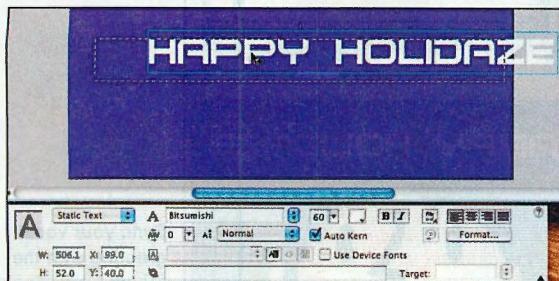
Flash MX trial, MacAddict E-Card Tutorial, Sound Studio 2.0.4

1 Create a Background Launch Flash. In the Timeline, click the keyframe (a tiny circle) in frame 1 of Layer 1. From the toolbar, select the rectangle tool. In the properties window, click the stroke color swatch and select the no-stroke swatch. Then click the fill color swatch and select any color from the palette for your background (we chose dark blue, 000033). Click and drag the cursor on the stage to create a full-screen rectangle. Then align the rectangle and make it fill the entire screen by selecting all (Command-A) and entering the following numbers in the corresponding fields of the properties window: W=550, H=400, X=0, Y=0. Name the layer by double-clicking Layer 1 in the Timeline and typing *Background*, and then save your file.



Don't worry about drawing a perfect stage-filling rectangle—you can make it fit precisely afterward in the properties window.

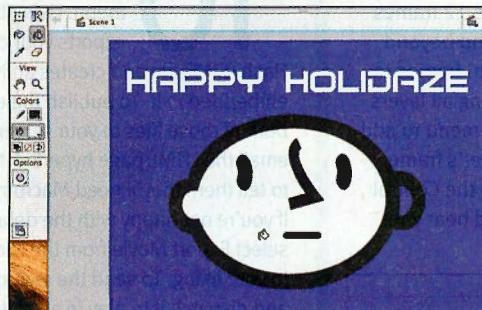
2 Add Sweet Nothings To add a greeting, insert a new layer by clicking the insert-layer icon in the Timeline. Name this layer *Text*. Select the text tool from the toolbar; the properties window displays the text options. In the upper-left drop-down menu, select Static Text. From the drop-down menu to its right, select a font. To its right, enter a number to change the font size, and to the right of that, click the text (fill) color swatch and choose a color. Then click anywhere on the stage and type a brief greeting, like *Happy Holidaze*. If you want to boldface the text, stylize it, or Martha Stewart it in any other way, highlight your greeting and modify the appropriate settings in the properties window. Use the arrow tool to move the text into place.



Type a short greeting, and then move it to the perfect spot on the stage with the arrow tool.

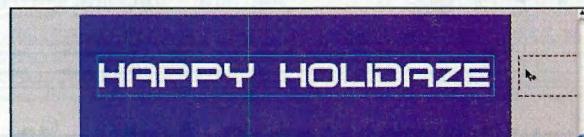
4 Add Character Depending on your artistic skills, you can either draw your compulsory cutie with the pen tool, which uses Bézier curves to help you form precise shapes, or select Smooth from the Options pop-up menu and use the pencil tool to draw freehand. Insert a new layer, give it the name of a character, click frame 50 of its layer, select your tool of choice, change color and stroke size in the properties window, and sketch your character with a small, closed mouth. If you're in a hurry, draw a simple happy face. To color in your character, select the paint-bucket tool, click the fill color swatch in the properties window, select a color from the palette, and click inside an area to fill it with color. When you're finished, copy your character (Command-C), click frame 1 of its layer, and select Paste In Place from the Edit menu to make the character span frames 1 through 50.

Add color to your character by filling in sections with the paint-bucket tool.



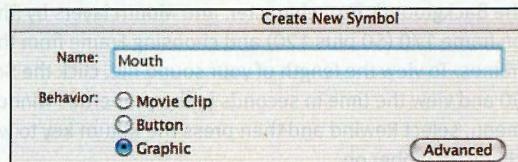
6 Make It Talk Click frame 2 and, from the Insert menu, select Blank Keyframe. Click the onionskin icon in the Timeline to see your closed-mouth drawing from frame 1 as a semitransparency. Now draw a slightly open mouth directly over the semitransparent one. Then add a keyframe in frame 3 and draw a wide-open mouth. Click the onionskin icon again to turn it off, and then click Scene 1 under the Timeline to return to the original Timeline. To add the Mouth animation symbol to your e-card, Shift-click frame 55 of each layer and select Keyframe from the Insert menu. Then click frame 50 in the Mouth layer and select Library from the Window menu. Drag the Mouth icon from the Library onto your character's mouth onstage. If you need to resize it, select the free-transform tool and adjust the bounding box to scale the mouth for the face. Press Return to check your work.

3 Put It into Motion Add a little zip to your greeting by making the text slide into place from the right. Select the Background layer, click frame 50, and, from the Insert menu, select Keyframe to add a keyframe. Then select the Text layer and use the arrow tool to move your greeting to the desired final position. Click frame 50 in the Text layer; from the Insert menu, select Keyframe. Then click frame 1 and use the arrow tool to Shift-click the text on its left side and drag it completely offscreen to the right. Drop the text with the cursor offstage but still in the workspace window, or the text will bounce back. Click frame 1 again and, in the properties window, select Motion from the Tween pop-up menu. Press Return to eyeball your handiwork.

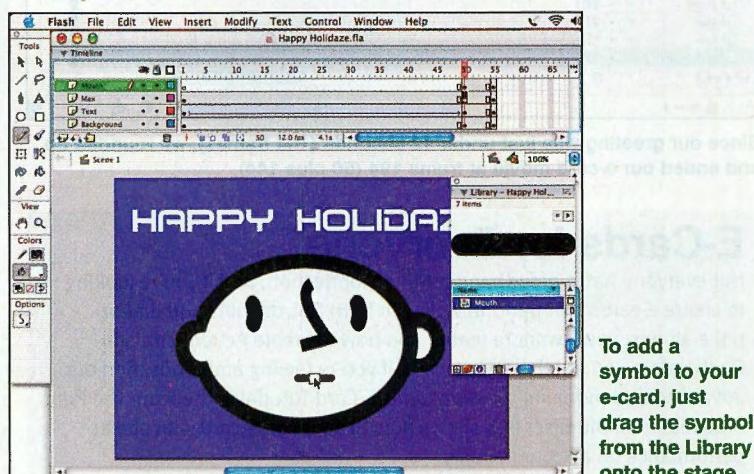


Grab your text greeting from the far left and drop it offstage but with the cursor still in the window, or the text will bounce back.

5 Gimme Some Lip To make your character speak or sing, create a mouth graphic in a separate layer and then turn it into an animation loop. Insert a new layer at the top of the Timeline and type the name *Mouth*. Click frame 50 of that layer and, from the Insert menu, select Keyframe. Then select New Symbol from the Insert menu. In the dialog, type *Mouth* again for the Name, choose Graphic as the Behavior, and click OK. You'll be presented with a new Timeline for the Mouth symbol. Click frame 1 and use the pen or pencil tool to draw the same closed mouth you made when you drew your character.

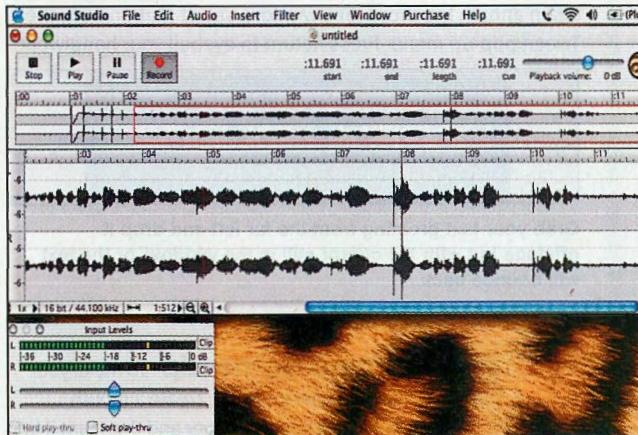


To make a character appear to speak or sing, create a three-frame animated symbol for the mouth.



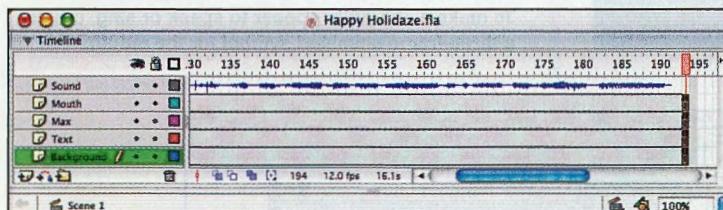
To add a symbol to your e-card, just drag the symbol from the Library onto the stage.

7 Add Your Two Cents Personalize your card even further by adding a personal greeting in your own voice. To record a greeting, use a mic (built-in or external) with a sound-recording app, such as AudioX or Sound Studio (on the Disc), or the Mac's Sound control panel (in OS 9). Launch your sound app or control panel, click the Record button, and speak or sing whatever comes to mind, keeping it relatively short (less than 30 seconds is good). If you want to use a preexisting sound or music file, use your sound-recording app to edit the piece to under 30 seconds. Save the recording or edited sound file in AIFF, WAV, or MP3 format.



We used Sound Studio to record our voice and create a personal greeting for the e-card.

9 Tie Up Loose Ends To make your e-card animation end close to when the sound file ends, insert extra frames in all layers except for the Sound layer. Flash's default frame rate is 12 frames per second, so add 12 frames for every second of sound beyond frame 50. For example, if your sound is 10 seconds long, add 120 frames to the Background, Text, character, and Mouth layers by Shift-clicking all layers on frame 170 (50 plus 120) and choosing Frame from the Insert menu to add frames. To view the length of your sound file, click the Sound layer's frame 50 and view the time in seconds in the properties window. From the Control menu, select Rewind and then press the Return key to watch and hear your character jabber on.

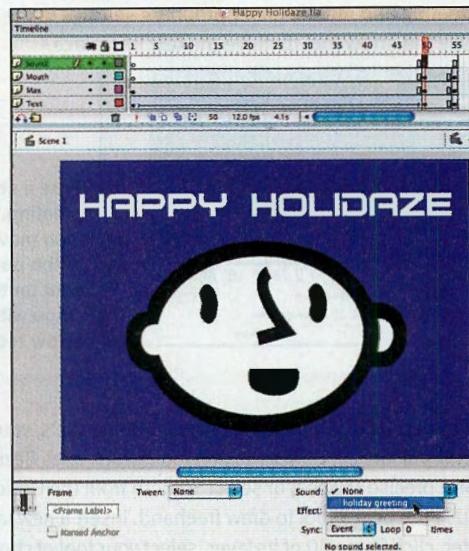


Since our greeting was just under 12 seconds (144 frames), we rounded up and ended our e-card movie at frame 194 (50 plus 144).

E-Cards for Everyone

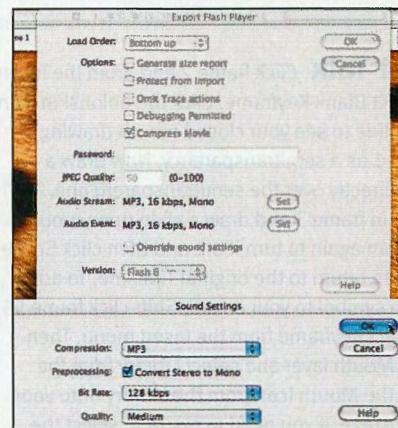
Not everyone has a broadband Internet connection, and if you're looking to create e-cards that perform well with both DSL dashers and dial-up poke-alongs, you'll want to read up on how to create ActionScripts in Flash before you publish your e-card. If you're feeling ambitious, find our advanced addendum in the *MacAddict E-Card Tutorial* in the From The Print Side folder on the Disc; this shows how to script an e-card with stellar performance on all connections.

8 Bring In da Noise To add the sound, in Flash, select Import from the File menu. In the dialog, navigate to and select your sound file, then click OK to store it in the Library. Insert a new layer and type in the name *Sound*. Click frame 50 of the Sound layer, add a keyframe, and then select your sound from the Sound pop-up menu in the properties window. From the Sync pop-up menu, choose Stream. The audio waveform for your greeting appears in the Sound layer in the Timeline.



Sync your vocal greeting with the mouth animation's first frame by creating a keyframe for the sound at frame 50 and selecting the sound in the properties window.

10 Present Your Card To complete the e-card, select Publish from the File menu. Using the default settings, Flash exports your creation into a Shockwave Flash (SWF) file and creates an HTML page with your movie embedded in it. To publish the e-card on your Web site, upload both of those files to your server with any FTP software and email the HTML page hyperlink to your recipients (don't forget to tell them they'll need Macromedia's Flash Player to view it). If you're not happy with the default compression settings, select Export Movie from the File menu and tweak the settings to your liking. To send the e-card via email, attach the SWF file and dispatch it to play in all of its glory.



Flash crunches audio files into teeny 16-Kbps MP3 files as a Publish default; select Export Movie if you want to change these settings.

Multimedia Mac maven Chris Florio (www.chrisflorio.com) is the director of IDV Media and Passion Records in Boston.

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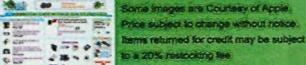
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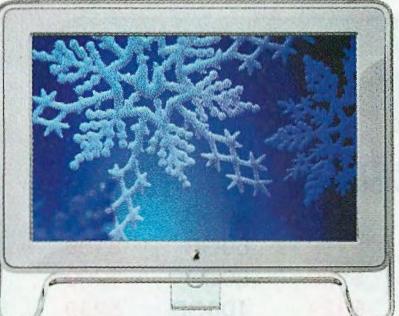
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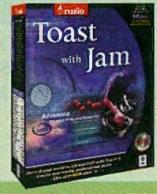


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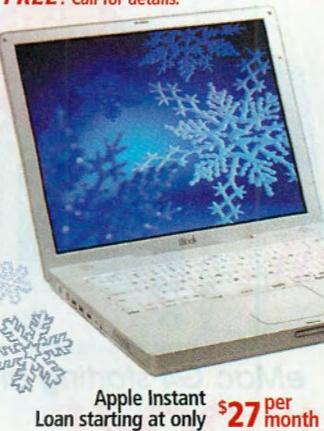
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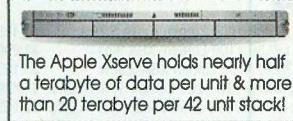
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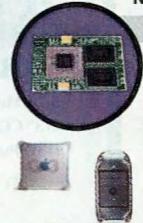
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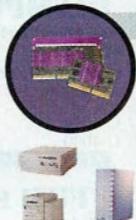
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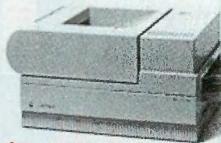
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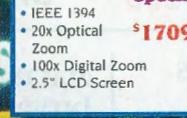
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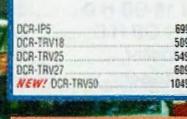
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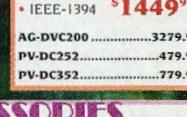
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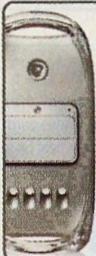
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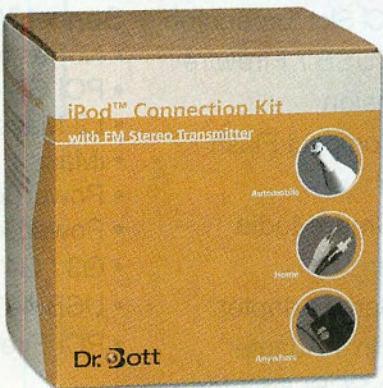
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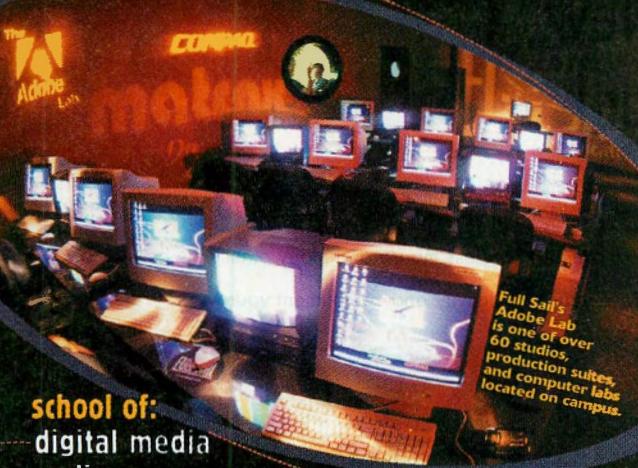
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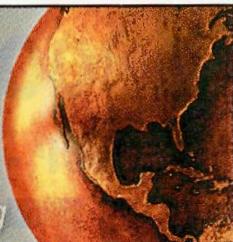
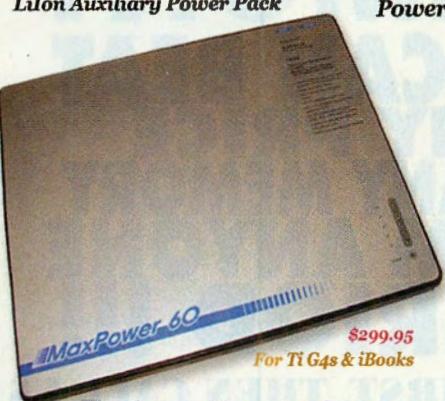
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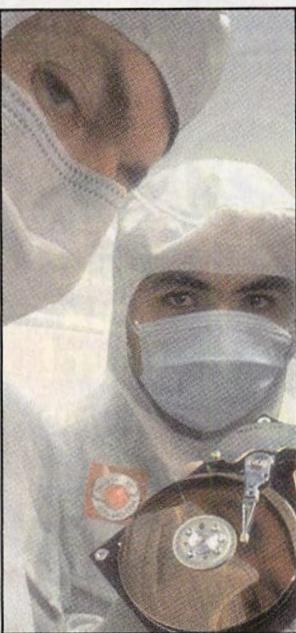
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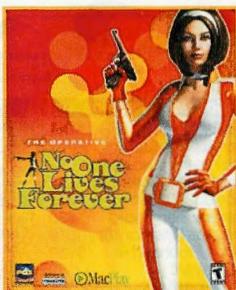
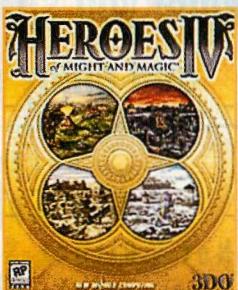
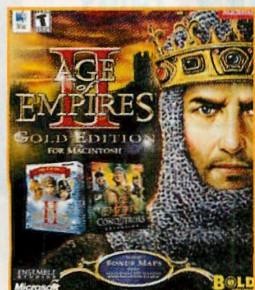
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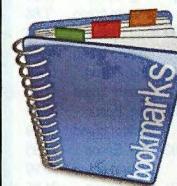


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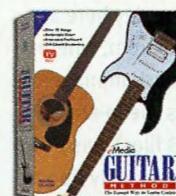
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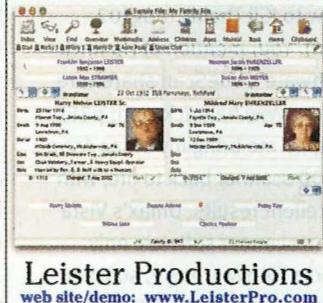
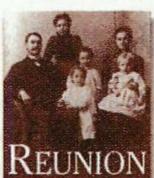
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tell us how you really feel

LETTERS

BEHIND THE MUSIC

My iPod saved the day here at the Chicago Nordstrom, where I'm the maintenance manager. The PC that plays the in-store music (from MP3 files) was down one day. I had previously ripped a copy of the songs to my iPod as a backup, so I just plugged my iPod into the speaker system and selected that playlist. It ran for 3 hours, and no one even noticed.—John Yelen

They might have noticed had you selected your System of a Down or Marilyn Manson playlist.—Max

101 TIME-SAVERS

I really enjoyed your article "101 Tips" (Oct/02, p22). I'm sure it

would have taken me months to discover all of those shortcuts on my own, so thanks.

—Darren Smith

We live to serve.—Max

A SUCCESS STORY

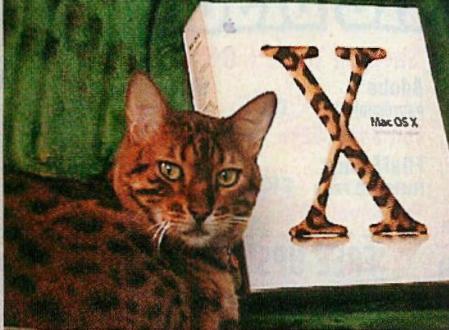
Thanks for the feature story "50 Biggest Mac OS X Bugs and How to Kill Them" (Aug/02, p16). Your mention of Hamrick Software's VueScan shareware (\$40, www.hamrick.com; p25) helped me bring my Umax Astra 6400 scanner back to life, with excellent results. Umax's Vista Scan scanner software only works with Mac OS 9, so when I switched to Mac OS X, I was almost ready to give up and buy a new USB scanner. The

information you printed saved my scanner and more than covered the cost of my *MacAddict* subscription.

—Steve Pruneau

Feel free to spend the rest of your savings on me (see "Holiday Wish Lists," p32).
—Max

RECENTLY SIGHTED



Our two-year-old Bengal thinks Jaguar is cool, too.—Max Bygrave

MACADDICT READER POLL BYE-BYE OS 9

Q Yes or no: Apple recently announced that new Macs will boot up in Mac OS X only. Are you ready to leave Mac OS 9 behind completely?



Email poll@macaddict.com with your response or click Reader Poll at www.macaddict.com. Check the February 2003 issue to see the results.

WANTED: METER MAC

The new (and only) Mac store in Rochester, Minnesota, has this sign in its parking lot (right). I'm not sure how it'll be enforced, but it makes me giggle.—Eric Renshaw

Next time I'm in Rochester, I'll know where to park my Aston Martin DB5.—Max

A MERCURIAL MERCURY USER

I bought a Mercury Elite 160GB drive from Other World Computing because your September review said it was a great drive. Then Maxtor released a 320GB mechanism, and I felt like an idiot because you also said I couldn't upgrade the Mercury Elite. Imagine my delirious delight to discover that you were wrong—it is upgradable. Ha! Haha! Hahahaha!—Art Gardner

If only all of our little slip-ups could cause such outbursts of pure, unbridled joy.—Max

U GOT UNIX

Why don't you have a Unix column? Now that we have this Terminal thing, I'd like to

MacDoctors

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for people who think different

Violators must switch platforms!

For towing, call 555-JOBS.

know how it works. I figure I could spend a lot of money on expensive books and classes, but that just takes away from my *MacAddict* fund, and I don't think either of us wants that.

—Ike Renner

How about a monthly Unix Q&A in our *Ask Us* column? Head to the "Unix University" section (p58)—and remember: We live to serve.—Max

AIRPORT BATHROOMS ARE THE BEST

AirPort wireless networking is great! With my new iBook and AirPort, not only can I read your magazine in the bathroom, but I

HE'S GOT THE FORCE

The Winner of Our Extremely Fanatic Star Wars Trivia Quiz

Congratulations to Stephen Janssen for winning our Extremely Fanatic *Star Wars* Trivia Quiz (Aug/02, p95). He scored a perfect 5 on the quiz and wrote a hilarious musical eulogy for Jar-Jar Binks, set to the opening tune of *The Beverly Hillbillies*.



Stephen wins one Master Replicas Anakin Skywalker Lightsaber. Watch where you wave that thing, Padawan.

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**YOU KNOW YOU'RE A
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WHEN...**

...you think hot cocoa is what happens when you overclock your Mac.—Exlaxxboy

...you programmed your wedding proposal using AppleScript. (She clicked yes.)—Joshie Surber

...your favorite restaurant is "iHop."
—Thomas Prescott

can also visit your Web site.

—Brad Bortree

We're happy for you. You're family probably isn't.—Max

MISSION IMPOSSIBLE

I just noticed that in the new Mac OS 10.2 (Jaguar) Print Center, there's a button labeled Stop Jobs. Do they mean Steve? Are Apple designers inciting a coup?

—Peter Robinson

If they were, I'm sure that coup was righteously nipped in the bud.—Max



Stop Jobs
...in the name of love...

**STEVE JOBS
PHONE HOME**

My astute wife noticed, as she was cleaning out our magazine holder, that your August 2001 and August 2002 cover features are exactly the same. Both covers sport monitor-equipped bugs in the process of being exterminated, and both feature titles promise

NEXT MONTH**SECRETS OF THE PROS**

Learn the professional, Mac-celebrity secrets behind movies such as *Spider-Man*, *Pearl Harbor*, and *Full Frontal*; the Starbucks logo design; Crystal Method's music; and much more.

TAMING JAGUAR

A special series of how-tos digs deep into Address Book, iCal, .Mac, iPhoto, iTunes, iSync, and other features of the latest and greatest Mac OS.

to squash 50 Macintosh bugs. Is August bug month? How about an issue devoted to Macs and conspiracy theories? It's widely known that aliens may have brought the Mac to Steve Jobs, and that they banished him to NeXT for years because he ticked them off. Now Steve's one desire is to please the mother ship. Just take a good look at the AirPort Base Station, the original iMac, and the current iMac—they're replicas of the alien fleet. You know I'm right.—Drake

But the real question is, are you all right?—Max

**ALL'S FAIR IN
LOVE AND DESIGN**

I like your magazine very much, but in the last few issues you've squished the type down so much that I can barely read it. Have some pity on your older readers.

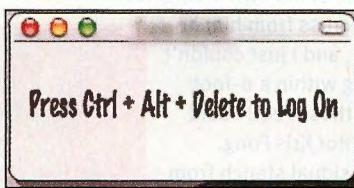
—John Goray

I can't read it either, which probably explains a lot of my comments.—Max

THE SILENT REBELLION

At work I am cursed with using a PC. At least whoever designed our screen saver (see below) is a Mac addict.—CM

I wish I could take credit for that.—Max



Try it. You'll like it.

**MACADDICT'S
BOOKS OF LUCK
CONTEST**

Win Five Books from Peachpit Press

Need to bone up on your Mac knowledge? You could buy a book—or better yet, win five from us. Simply guess how many pages are in this stack (see right). The lucky stiff who gets closest wins his or her choice of five currently available books from Peachpit Press (for a list, visit www.peachpit.com), which publishes hundreds of how-to computer titles.

If two or more of you guess correctly, we're relying on a highly scientific tiebreaker: guess a number between 1 and 1,000 (we've predetermined the lucky number).

Winners will be published in the April 2003 issue of *MacAddict*. Prizes must be picked from Peachpit Press's list of available titles. All prizes are subject to availability, and no title's availability can be guaranteed.

**MACADDICT'S BOOKS OF
LUCK CONTEST**

How many pages are in the stack of books on the right?

Count every page (that's one side of one sheet) between the two book covers, regardless of whether they have an alphanumeric page number. This is to thwart all Internet surfers who would cheat by merely looking up the page count. Not that any of you would dare do that.

Pick a number between

1 and 1,000 (in case of a tie):

CONTESTANT INFORMATION

Full Name:

Address:

City:

State:

Zip:

Email or telephone:

Send contest entries to:

*MacAddict's Books of Luck Contest,
MacAddict magazine, 150 North Hill Dr.,
Brisbane, CA 94005*

Send email entries to: contest@macaddict.com

Deadline for entry: January 15, 2003

Contest Rules

The judges will be *MacAddict* editors, and they will base their decision on a correct guess as to the number of pages in the stack of books. One page is defined as one side of one sheet of paper between two book covers. If there's a tie, the prize goes to the contestant who most closely guessed a predetermined number between 1 and 1,000. All entries must be received no later than January 15, 2003, with the winner announced on or around April 2003. By entering this contest, you agree that Future Network USA may use your name, likeness, and Web site for promotional purposes without further payment. All prizes will be awarded and no minimum number of entries is required. Prizes won by minors will be awarded to their parents or legal guardians. Future Network USA is not responsible for damages or expenses the winners might incur as a result of the contest or the receipt of a prize, and winners are responsible for income taxes based on the value of the prize received. A list of winners may also be obtained by sending a stamped, self-addressed envelope to Future Network USA, c/o *MacAddict's Books of Luck Contest*, 150 North Hill Dr., Brisbane, CA 94005. This contest is limited to residents of the United States. No purchase necessary; void in New York, Florida, Vermont, and Rhode Island, and where prohibited by law.



OPINION**NEIN!**

Just Say "No" to the Operating System Formerly Known as OS 9

Happy intergalactic holidays, friends of the Federation and Middle Earth! Unless you're an OS 9 Herbert, that is. You guessed it: Captain Jones has a bone to pick again, so sit back and read on—if you think you can take the phaser heat.

NEW RULES

Henceforth, all occurrences of the now-declared Nonnumeral 9 shall be inverted. Some examples:

Old Way	New Way
Chanel No. 9	Chanel No. 6
Love Potion No. 9	Love Potion No. 6
9 out of 10 Dentists	6 out of 10 Dentists
69	66
1-900 numbers	1-600 numbers
911	611
9 lives	6 lives
3x3=9	3x3=6+3

With the release of Mac OS 10.2 and the G4 towers: The Next Generation, Apple has made it even more difficult to "live" in its Sumerian operating system, Mac OS 9. I've been hearing a lot of complaining—limp, pathetic whining about the impending and inevitable extinction of OS 9: The Original Operating System. Resistance is futile. Evolve or be replaced! "There's no option to boot into it," you say. "We can't install it easily from the included disc," you moan. "Me wants my preciousssss OS 9—it's mine!" you snarl. What is wrong with all you people?! Take your I-can't-run-OS-X-on-my-Performa-600-I-got-at-Costco-in-1995 attitude and stow it. You might as well still be rolling 20-sided dice!

Yes, Apple has retained the senile operating system formerly known as OS 9, under the appropriately ineffectual moniker of Classic. Yes, it's next to impossible to get the crotchety old system to boot on your new G4. Yes, yes, yes. So what? These circumstances, I believe, represent



Apple's righteous gauntlet, thrown down in challenge to all you Mac dinosaurs: Excrete or get off the pot. There is no OS 9 any more—deal with it.

What's that awful noise? It's the welcome death rattle of the old tyrant 9, mingling with a chorus of whining, emanating from evil alternative-universe Hobbit holes everywhere. Silence, denizens of Dorkdom!

Oh, and another thing that's been bothering me: paper money. Can't we just get over this obviously outdated attachment to ye olde tynes? Use a credit card, for pete's sake! Not only can you purchase anything you want, you can also simultaneously earn flight miles for those times when your travel plans take you outside the range of your horseless carriage.

INSIGHT**Apple Engineering****HOW WE DID IT**

As you probably know, all new Macs introduced after January 2003 will be unable to boot in Mac OS 9. What you may not know is that this limitation of options wasn't an easy technical feat for us wizards of Cupertino to pull off. First, we had to rediscover the confluence of the PowerPC G4's metatarsal pipeline—and that, of course, was not a just simple linear tonseration, if you know what we mean (and we think you do). Secondly, the cadence of the I/O ASIC had to be protonormalized, which was challenging in light of the exceptionally top-heavy and artensic nature of that ASIC's propensity to gigaclove. We are pleased to announce, of course, that the torquensis of its retinoidinally prolensing UART remains logarithmically toasty—and we can all breathe easier because of that, right? Right.

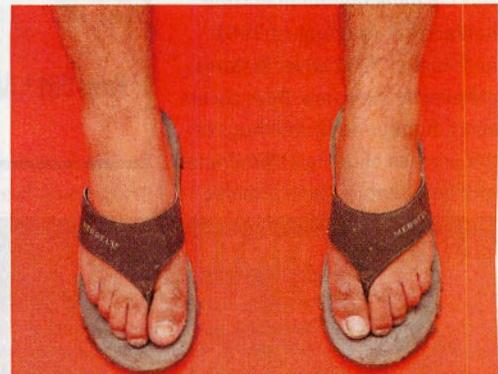
**INTERN EXILED TO AFRICA**

After being subjected to two months of incessant sandal-wearing, the *MacAddict* magazine staff has sent its Resident Sandal-Wearer, Cyrus Farivar, on an eight-month reassignment in Senegal.

The magazine staff stated that Farivar ignored repeated requests to wear shoes, and in a closed-door meeting last month, the staff decided it would be better for everyone if Farivar experienced a native sandal-wearing environment for "a taste of his own medicine."

"I sat across from him in the office, and I just couldn't take being within a 6-foot radius of those feet!" said Senior Editor Kris Fong, waving residual stench from her face. "I mean, the rest of us wear shoes, what makes him so special?"

Even Max, who recruited Farivar to the magazine, has since rescinded his decision. "I hoped it would all work out," Max said, "but he took offensive odor to a whole new level. We just couldn't handle gagging anymore."



A native of Santa Monica, California, Cyrus Farivar was overheard saying, "The editors need to just chill, man."

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